



GRADE IX

WINTER VACATION ASSIGNMENTS-2021-22

1. Language Arts : ENGLISH

Make a model of your won animal farm with the recycle items possible.

In case of any confusion contact: wanrip@gmail.com

२. नेपाली

१. अमर न्यौपानेको 'करोडौं कस्तुरी' पुस्तक (उपन्यास) पढ र कम्तीमा ५०० शब्दमा नघटाई यस पुस्तकको सारांश र सन्देश लेख ।
२. यसै पुस्तकबाट सुरु र अन्त्यमा ह्रस्व इकार, दीर्घ ईकार, ह्रस्व उकार र दीर्घ ऊकार प्रयोग भएका २०-२० ओटा शब्द लेख ।
३. यसै पुस्तकबाट श, ष, स प्रयोग भएका २०-२० शब्द लेख ।
यो गृहकार्य (बद्ध साइज पेपरको एकापट्टि मात्र लेख । यो गृहकार्य चौथो कार्य सम्पादन मूल्याङ्कन ९द्वचज एएभ० मा जोडिने छ ।
सम्पर्कका लागि मोबाइल नं. ९८४९०९६३२२, Email ID : kamalgyawali81@gmail.com

3. LPS

Research on the following topics: (Use internet / books)

1. Definition of the terms: Scalene triangle, isosceles triangle, equilateral triangle, right angled triangle, acute angled triangle, and obtuse angled triangle.
2. Properties of an isosceles triangle.
3. Definition of the terms: Trapezium, parallelogram, rhombus, rectangle, square.
4. Properties of Square, rectangle, parallelogram and rhombus.
5. Circle and its terminologies: Arc, Chord, diameter, sector (Major & minor), segment (Major & minor), semicircle.

Make attractive power point presentations with diagrams to illustrate each property/terminology and send it to sumankoirala62@gmail.com before winter vacation comes to an end.

Your effort will be evaluated for the 5th PPE based on the following criteria:

1. Presentation layout
2. Content
3. Sequence of presentation
4. Special effects (Visual and sound)

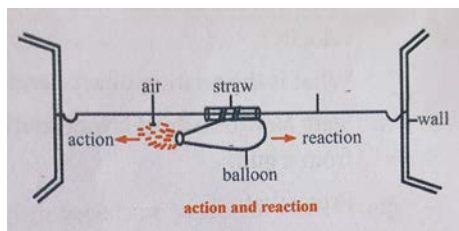
In case of any confusion contact : 9843768980

4. DISCOVERY SCIENCE

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Take a straw and pass a thread inside it. Tie the both ends of the thread as shown in the diagram. Now inflate a balloon and paste it on the straw using tapes. Now leave the mouth of the balloon open. Observe the result and discuss the action-reaction on the balloon.

Make a video of not more than 2 minutes 30 seconds, showing how you have done the project and explaining the concept of action and reaction.



- Q2. (a) What do you mean by radicals? How many types of radicals are there?
 (b) Draw the table for electropositive radicals and electronegative radicals (chapter: Classification of elements) in different A4 paper.
- Q3. Write the molecular formulae of the following compounds:
 a) sodium oxide b) cuprous oxide c) Aluminium oxide d) ferric chloride
 e) mercuric oxide f) calcium nitrite g) hydrogen bromide h) sodium sulphate
 i) ammonium sulphate j) zinc carbonate k) ammonium hydroxide
- Q4. Change the following word equations into balanced equations:
- | | | |
|--|---|--|
| a) hydrogen + chlorine | → | hydrogen chloride |
| b) hydrogen + nitrogen | → | ammonia |
| c) zinc + hydrochloric acid | → | zinc chloride + hydrogen |
| d) aluminium + sulphuric acid | → | aluminium sulphate + hydrogen |
| e) lime water + carbon dioxide | → | calcium carbonate + water |
| f) iron + oxygen | → | iron oxide |
| g) magnesium bicarbonate + calcium hydroxide | → | calcium carbonate
+ magnesium hydroxide + water |
- Q5. Draw the disaster management cycle in an A4 paper.
 Q6. Draw the axial skeleton on human body in an A4 paper.

Note:

Submit the video in the following email and for any inquiry please call the contact person.

Grade – 9 (east) : harishchand4455@gmail.com , 9869066726

Grade – 9 (west) : chetryyogeeta25@gmail.com , 9841132168

5. SOCIAL STUDIES

Conduct a research from websites such as <https://www.wikipedia.org> and prepare a report on State Legislature and Federal legislature of Nepal under the following topics.

- 1) First Past the Post (FPTP) and Proportional Representation (PR). System of elections and the number of elected representatives under each system in the State Legislature and Federal Legislature.
- 2) Functions of state legislature.
- 3) Functions of federal legislature.
- 4) Collaboration between state and federal legislature.

(Reference: Example <http://election.gov.np/election/np/> , <https://www.wikipedia.org> ,etc)

Note: Relevant photographs are highly recommended for extra credit.

Sent the assignment to the following email address:

In case of any confusion contact : Meenakshi Rana KC (mranakc@gmail.com) (9849417554)

6. Environment Population and Health Education

Make a small group of friends/neighbours/family members. Select a site of your community that needs cleanliness. Visit and plan for your action. Perform your actions (cleanliness) in group.

Take pictures right from the beginning till the end.

Send your action images in order with your experiences in word document at

arjun.chhetri1973@gmail.com For any confusion contact: 9851118466.

8. Elective Maths

Research on the following topics:

- a) *Trigonometric ratios.*
- b) *Fundamental relations of trigonometric ratios.*
- c) *Trigonometric identities.*
- d) *Conversion of trigonometric ratios using basic trigonometric relations and Pythagoras theorem.*
- e) *Trigonometric ratios of standard angles and any angle.*

Make a power point presentations with necessary illustrations.

Your effort will be evaluated for the 5th PPE based on the following criteria:

- a) *Presentation layout*
- b) *Content*
- c) *Special effects (Visual and sound)*

In case of any confusion contact:

Email : sumankoirala62@gmail.com

9. Economics

A. Short type questions

1. *Define cottage and small scale industries.*
2. *What are the measures to be taken to solve the problems of cottage and small scale industries?*
3. *What are the problems of agriculture in the country?*
4. *"Agriculture is the main source of livelihood in Nepal." Discuss.*
5. *List the importance of cottage and small scale industries in Nepal.*
6. *Name any three major rivers in Nepal.*
7. *Suggest any two measures to protect forest.*
8. *Mention any two problems of agriculture.*
9. *What is meant by credit cooperative?*
10. *What is meant by small industry?*

B. Long Answer type questions:

1. *Describe the problems of cottage and small scale industries in Nepal.*
2. *Discuss the importance of cottage and small scale industries in Nepal*
3. *What are the main problems of Agriculture? Suggest measures to overcome them.*
4. *Describe the importance of agriculture.*
5. *Suggest measures to solve the problems of agriculture.*
6. *"Agriculture is the backbone of Nepalese economy". Discuss.*
7. *Explain the problems of Nepalese industries. How can they be solved?*
8. *'Nepal possesses' great tourism potential'. Do you agree? Give reasons.*

In case of any confusion contact: : 9808049897 Email: tolangeshyamlal@gmail.com

7. ICT

QBASIC Programs

Basic Programs

- i. Program to input two numbers and perform calculations.

- ii. Program to add two **Strings**.
- iii. Program to input a student's name, marks of any three subjects and calculate the **total** and **percentage**.
- iv. Program to display the **Area of a Triangle**.
- v. Program to display the **Area of a Rectangle**.
- vi. Program to display the **Area of 4 walls**.
- vii. Program to display the **Area and Circumference of a Circle**.
- viii. Program to input amount, time and rate and calculate **Simple Interest**.
- ix. Program to find the **Average** of any three numbers.
- x. Program to calculate 10%, 20% and 30% of a given number.

Conversions and Formulas

- i. Program to convert **Kilometers** into **Meters**.
- ii. Program to find the sum of all the numbers from 1 to 100.
- iii. Program to input temperature in **Centigrade** and convert it into **Fahrenheit**.

IF THEN ELSE ELSEIF

- i. Program to find whether the given number is **Positive, Negative** or **Zero**.
- ii. Program to find the biggest value among three given numbers.
- iii. Program to find whether the given number is **Even** or **Odd**.
- iv. Program to enter numbers from 1 to 7 and display the appropriate **Day** based on the number.
- v. FizzBuzz.

LOOP

- 1. FOR NEXT LOOP
- 2. WHILE WEND LOOP
- 3. DO WHILE LOOP & DO LOOP WHILE
- 4. DO UNTIL LOOP

FOR NEXT LOOP

- i. Program to print natural numbers from 1 to 100 and in **reverse**.
- ii. Program to print series of a number Ex. Series of 5.
- iii. Program to print **Even** numbers from 2 to 100 and in **reverse**.
- iv. Program to print **Odd** numbers from 1 to 99 and in **reverse**.
- v. Program to print the sum of natural numbers from 1 to 100.
- vi. Program to print the sum of **EVEN & ODD** numbers from 1 to 100.
- vii. Program to print the sum of natural numbers from 1 to a given no.
- viii. Program to enter a number and display its **table till 10**.

WHILE WEND LOOP

- i. Program to display natural numbers from 1 to 100 and in **REVERSE**.
- ii. Program to display **Even** numbers from 2 to 100 and in **REVERSE**.
- iii. Program to display **Odd** numbers from 1 to 99 and in **REVERSE**.
- iv. Program to enter a number and display its **table till 10**.

- v. Program to print the sum of natural numbers from 1 to 100.
- vi. Program to print the sum of natural numbers from 1 to a given no.

DO WHILE LOOP & DO LOOP WHILE

- i. Program to display natural numbers from 1 to 100 and in **REVERSE**.
- ii. Program to display **Even** numbers from 2 to 100 and in **REVERSE**.
- iii. Program to display **Odd** numbers from 1 to 99.

DO UNTIL LOOP

- i. Program to print natural numbers from 1 to 100 and in **REVERSE**.
- ii. Program to print **EVEN** and **ODD** numbers.
- iii. Program to print **EVEN** and **ODD** numbers in **REVERSE**.

BASIC PROGRAMS

1. To input any two numbers and perform calculations.

```
CLS
Input "Enter first no: "; n1
Input "Enter second no: "; n2
Let sum = n1 + n2
sub = n1 - n2
mult = n1 * n2
div = n1 / n2
Print "Addition = "; sum
Print "Subtraction = "; sub
Print "Multiplication = "; mult
Print "Division = "; div
END
```

2. Program to add two Strings.

```
CLS
Input "Enter first name: "; a$
Input "Enter last name: "; b$
Print "Full name: "; a$+b$
END
```

3. To input a student's name, marks of any three subjects and calculate the total and percentage.

```
CLS
Input "Enter name: "; name$
Input "Enter English marks: "; eng
Input "Enter Math marks: "; mat
Input "Enter ICT marks: "; ict
TOTAL = eng + mat + ict
```

```
PER = TOTAL / 300 * 100
Print "Student's name: "; name$
Print "Total = "; TOTAL
Print "Percentage = "; PER
END
```

4. Program to display the Area of a Triangle.

```
CLS
Input "Enter breadth: "; b
Input "Enter height: "; h
Let I = 1/2 * b * h
Print "Area of Triangle is: "; I
END
```

5. Program to display the Area of a Rectangle.

```
CLS
Input "Enter length: "; l
Input "Enter breadth: "; b
a = l * b
Print "Area of Rectangle is: "; a
END
```

6. Program to display the Area of 4 walls.

```
CLS
Input "Enter length: "; l
Input "Enter breadth: "; b
Input "Enter height: "; h
a = 2 * h * (l + b)
Print "Area of 4 walls: "; a
END
```

7. Program to display the Area and Circumference of a Circle.

```
CLS
INPUT "Enter Radius: "; r
a = 3.14 * r ^ 2 //3.14 or 22/7 is the value of PI
c = 2 * 3.14 * r
PRINT "Area of Circle: "; a
PRINT "Circumference of Circle: "; c
END
```

8. Program to input amount, time and rate and calculate Simple Interest.

```
CLS
Input "Enter amount: "; a
```

```
Input "Enter time: "; t
Input "Enter rate: "; r
si = (p*t*r) / 100
Print "The Simple Interest is: "; si
END
```

9. Program to find the Average of any three numbers.

```
CLS
Input "Enter 1st number: "; a
Input "Enter 2nd number: "; b
Input "Enter 3rd number: "; c
avg = (a+b+c) / 3
Print "The Average is: "; avg
END
```

10. Program to calculate 10%, 20% and 30% of a given number.

```
CLS
Input "Enter a number: "; n
Let ten = 10/100 * n
Let twe = 20/100 * n
Let thir = 30/100 * n
Print "10% of the number is: "; ten
Print "20% of the number is: "; twe
Print "30% of the number is: "; thir
END
```

CONVERSIONS and FORMULAS

1. Program to convert Kilometers into Meters.

```
CLS
Input "Enter value in Kilometers: "; km
m = km * 1000
Print "The value in Meters: "; m
END
```

→ To convert Kilometers to miles:
 $m = km * 0.62$

2. Program to calculate the sum of all the numbers from 1 to 100.

```
CLS
FOR i = 1 TO 100
    sum = sum + i
NEXT i
PRINT "Sum of all the no. is: "; sum
END
```

3. Program to input temperature in Centigrade and convert it into Fahrenheit.

```
CLS
INPUT "Enter temperature in centigrade: "; c
f = (9 / 5) * c + 32
PRINT "The temperature in Fahrenheit is: "; f
END
```

IF-THEN ELSE ELSEIF

1. Program to enter any number and find whether the number is Positive, Negative or Zero.

```
CLS
Input "Enter any number: "; a
If a > 0 then
Print "The number is positive"
Else if a < 0 then
Print "The number is negative";
Else
Print "The number is neutral"
END
```

2. Program to input any three numbers and find the bigger number.

```
CLS
INPUT "Enter first number: "; a
INPUT "Enter second number: "; b
INPUT "Enter third number: "; c
IF a > b AND a > c THEN
    PRINT "The bigger number is "; a
ELSEIF b > a AND b > c THEN
    PRINT "The bigger number is "; b
ELSE
    PRINT "The bigger number is "; c
END IF
END
```

3. Program to find whether the given number is Even or Odd.

```
CLS
INPUT "Enter a no.: "; n
IF (n MOD 2 = 0) THEN
    PRINT "The number is Even";
ELSE
    PRINT "The number is Odd";
END IF
```


END

4. Program to enter numbers from 1 to 7 and display the appropriate Day based on the number.

```
CLS
INPUT "Enter a number from 1 - 7: "; n
IF (n = 1) THEN
    PRINT "Sunday";
ELSEIF (n = 2) THEN
    PRINT "Monday";
ELSEIF (n = 3) THEN
    PRINT "Tuesday";
ELSEIF (n = 4) THEN
    PRINT "Wednesday";
ELSEIF (n = 5) THEN
    PRINT "Thursday";
ELSEIF (n = 6) THEN
    PRINT "Friday";
ELSEIF (n = 7) THEN
    PRINT "Saturday";
ELSE
    PRINT "Invalid input"
END IF
END
```

5. FizzBuzz.

Program to display natural numbers from 1 to 50 with condition:

1. Numbers divisible by 15 – print '**FizzBuzz**'.
2. Numbers divisible by 5 – print '**Buzz**'.
3. Numbers divisible by 3 – print '**Fizz**'.

```
CLS
FOR i = 1 to 50
    IF i MOD 15 = 0 THEN
        PRINT "FizzBuzz";
    ELSEIF i MOD 5 = 0 THEN
        PRINT "buzz";
    ELSEIF i MOD 3 = 0 THEN
        PRINT "fizz";
    ELSE
        PRINT i;
    END IF
NEXT i
END
```

LOOP

FOR NEXT LOOP

1. Program to print natural numbers from 1 to 100.

```
CLS
for i = 1 to 100
print i;
next i
END
```

```
Reverse
for i = 100 to 1 Step -1
print i;
next i
END
```

2. Program to print series of a number Ex. Series of 5.

```
CLS
For i = 5 to 100 Step 5
Print i;
Next i
END
```

3. Program to print EVEN numbers from 2 to 100.

```
CLS
For i = 2 to 100 Step 2
Print i;
Next i
END
```

```
Reverse
for i = 100 to 2 Step -2
print i;
next i
END
```

4. Program to print ODD numbers from 1 – 99.

```
CLS
For i = 1 to 99 Step 2
Print i;
Next i
END
```

```
Reverse
for i = 99 to 1 Step -2
print i;
next i
END
```

5. Program to print the sum of natural numbers from 1 to 100.

```
CLS
For i = 1 to 100
sum = sum + i
next i
print sum
END
```

6. Program to print the sum of EVEN and ODD numbers from 1 to 100.

```
EVEN no.  
CLS
```

```
ODD no.  
CLS
```

```

FOR i = 2 TO 100 STEP 2
    sum = sum + i
NEXT i
PRINT sum
END

```

```

FOR i = 1 TO 100 STEP 2
    sum = sum + i
Next i
Print sum
END

```

7. Program to print the sum of natural numbers from 1 to a given no.

```

CLS
INPUT "Enter a number: "; n
FOR i = 1 to n
    sum = sum + i
NEXT i
PRINT sum
END

```

8. Program to input a number and display its table till 10.

```

CLS
INPUT "Enter a number: "; n
For i = 1 to 10
PRINT n; "x"; i; "="; n*i
NEXT i
END

```

```

WHILE WEND LOOP
INPUT "Enter a number: "; n
WHILE i <= 10
    PRINT n; "x"; i; "="; n*i
    i = i + 1
WEND
END

```

WHILE WEND LOOP

1. Program to display natural numbers from 1 to 100.

```

CLS
i = 0
WHILE i <= 100
PRINT i;
i = i + 1
WEND
END

```

```

Reverse
i = 100
while i >= 1
print i;
i = i - 1
wend
END

```

2. Program to display Even numbers from 2 to 100.

```

CLS
i = 2
WHILE i <= 100
    PRINT i;
i = i + 2
WEND
END

```

```

Reverse
i = 100
while i >= 2
print i;
i = i - 2
wend
END

```

3. Program to display Odd numbers from 1 to 99.

CLS	Reverse
i = 1	i = 99
WHILE i<= 99	while i>= 1
PRINT i;	print i;
i = i + 2	i = i - 2
WEND	wend
END	END

4. Program to enter a number and display its table till 10.

```
CLS
INPUT "Enter a number: "; n
WHILE i<= 10
PRINT n; "x"; i; "="; n*i
i = i + 1
WEND
END
```

5. Program to print the sum of natural numbers from 1 to 100.

```
CLS
a = 1
WHILE a <= 100
    sum = sum + a
    a = a + 1
WEND
PRINT sum
END
```

6. Program to print the sum of natural numbers from 1 to a given no.

```
CLS
INPUT "Enter a number: "; n
a = 1
WHILE a <= n
    sum = sum + a
    a = a + 1
WEND
PRINT sum
END
```

DO WHILE n DO LOOP WHILE

1. Program to print natural numbers from 1 to 100.

DO...WHILE Loop	DO...LOOP WHILE
CLS	CLS
I = 1	I = 1

```
DO WHILE I <= 100
PRINT I;
I = I + 1
LOOP
END
```

```
DO
PRINT I;
I = I + 1
LOOP WHILE I <= 100
END
```

In Reverse

DO...WHILE Loop

```
CLS
I = 100
DO WHILE I >= 1
PRINT I;
I = I - 1
LOOP
END
```

DO...LOOP WHILE

```
CLS
I = 100
DO
PRINT I;
I = I - 1
LOOP WHILE I >= 1
END
```

2. Even numbers from 2 to 100.

DO...WHILE Loop

```
CLS
I = 2
DO WHILE I <= 100
PRINT I;
I = I + 2
LOOP
END
```

DO...LOOP WHILE

```
CLS
I = 2
DO
PRINT I;
I = I + 2
LOOP WHILE I <= 100
END
```

In Reverse

DO...WHILE Loop

```
CLS
i = 100
DO WHILE i >= 1
PRINT i;
i = i - 2
LOOP
END
```

DO...LOOP WHILE

```
CLS
i = 100
DO
print i;
i = i - 2;
Loop While i >= 1
END
```

3. Program to display sum of odd numbers from 1 to 99.

DO...WHILE Loop

```
CLS
I = 1
DO WHILE I <= 99
sum = sum + I
I = I + 2
LOOP
PRINT sum;
END
```

DO...LOOP WHILE

```
CLS
I = 1
DO
sum = sum + I
I = I + 2
LOOP WHILE I <= 99
PRINT sum;
END
```

DO UNTIL LOOP

1. Program to print natural numbers from 1 to 100 and in REVERSE.

CLS	Reverse
n = 1	n = 100
DO UNTIL n = 101	DO UNTIL n = 0
PRINT n;	Print n;
n = n + 1	n = n - 1
LOOP	Loop
END	END

2. Program to print EVEN and ODD numbers.

EVEN no. (2 – 100)	ODD no. (1 – 99)
CLS	CLS
n = 2	n = 1
DO UNTIL n = 102	Do Until n = 101
Print n;	print n;
n = n + 2;	n = n + 2
Loop	Loop
END	END

3. Program to print EVEN and ODD numbers in REVERSE.

EVEN no. (100 – 2)	ODD no. (99 – 1)
CLS	CLS
n = 100	n = 99
DO UNTIL n = 2	Do Until n = 1
PRINT n;	print n;
n = n - 2	n = n - 2
LOOP	Loop
END	END

STRINGS& PATTERNS

Sequence generating using LOOP

1. Write a program to generate the following output:

1 4 7 10 13 16 19 22 25 28

```
CLS
a = 1
FOR i = 1 to 10
PRINT a;
a = a + 3
NEXT i
END
```

Write a program to generate the following output:

1 4 7 10 13 16 19 22 25 28

```

CLS
a = 1
FOR i = 1 to 10
    PRINT a;
    a = a + 3
NEXT i
END

```

2. Program to generate the following outputs.

```

1                11111
11               1111
111              111
1111             11
11111           1

```

```

CLS
a = 1
FOR i = 1 to 5
PRINT a
a = a * 10 + 1
Next i
END

```

```

CLS
a = 11111
FOR i = 5 to 1 STEP -1
PRINT a
a = a - 10^(i-1)
Next i
END

```

3. Write a program to generate the following output.

```

9                99999
99               9999
999              999
9999             99
99999           9

```

```

Cls
a = 9
For i = 1 to 5
Print a
a = a * 10 + 9
Next i
End

```

```

Cls
a = 99999
For i = 5 to 1 Step -1
Print a
a = a - 9*10^(i-1)
Next i
End

```

4. Program to generate the following output.

```

1                1
22               12
333              123
4444             1234
55555           12345

```

```

Cls
For i = 1 to 5
For j = 1 to i
Print i;
Next j
Print
Next i
End

```

```

Cls
For i = 1 to 5
For j = 1 to i
Print j;
Next j
Print
Next i
End

```

5. Program to generate the following output.

55555	12345
4444	1234
333	123
22	12
1	1

```

Cls
For i = 5 to 1 Step -1
For j = 1 to i
Print i;
Next j
Print
Next i
End

```

```

Cls
For i = 5 to 1 Step -1
For j = 1 to i
Print j;
Next j
Print
Next i
End

```

6. Program to generate the following output.

11111	5
2222	44
333	333
44	2222
5	11111

```

Cls
For i = 1 to 5
For j = i to 5
Print i;
Next j
Print
Next i
End

```

```

Cls
For i = 5 to 1 Step -1
For j = i to 5
Print i;
Next j
Print
Next i
End

```

7. Program to generate the following output.

11111	10101	12345
22222	10101	12345

33333	10101	12345
44444	10101	12345
55555	10101	12345
Cls	CLs	Cls
For i = 1 to 5	For i = 1 to 5	For i = 1 to 5
For j = 1 to 5	For j = 1 to 5	For j = 1 to 5
Print i;	Print j MOD 2;	Print j;
Next j	Next j	Next j
Print	Print	Print
Next i	Next i	Next i
End	End	End

Reverse:

For i = 5 to 1 Step -1
 For j = 5 to 1 Step -1

8. WAP to generate the following output.

1	10101	1	1
10	1010	00	11
101	101	111	111
1010	10	0000	1111
10101	1	11111	11111
Cls	Cls	Cls	Cls
For i = 1 to 5	For i = 5 to 1 Step -1	For i = 1 to 5	For i = 1 to 5
For j = 1 to i	For j = 1 to i	For j = 1 to i	For j = 1 to i
Print j MOD 2;	Print j MOD 2; Print i MOD 2;	Print "1";	
Next j	Next j	Next j	Next j
Print	Print	Print	Print
Next i	Next i	Next i	Next i
End	End	End	End

Programs using String (\$)

1. Program to generate the following output.

i	iiii	iiii
i		iiii
i		iiii
i		iiii
i		iiii
Cls	Cls	Cls
For i = 1 to 5	For i = 1 to 5	For i = 1 to 5
Print "i"	Print "i";	For j = 1 to 5
Next i	Next i	Print "i"
End	End	Next j
		Print
		Next i
		End

LEN(), MID(), LEFT(), RIGHT().

2. Program to generate the following output.

Q

Q

END

5. AWP to generate the following output.

```
C                               R
 O                               E
  M                               T
   P                               U
    U                               P
     T                               M
      E                               O
       R                               C
```

```
Cls
a$ = "COMPUTER"
for i = 1 to Len(a$)
print Tab(i); Mid$(a$, i, 1)
next i
End
```

```
Cls
b = 1
a$ = "COMPUTER"
for i = Len(a$) to 1 step -1
print Tab(b); Mid$(a$, i, 1)
b = b + 1
End
```

Sequence programs using Special Characters

1. WAP to generate the following output.

```
*           *           *****
*           **          *****
*           ***          *****
*           ****          *****
*           *****          *****
CLS           CLS           CLS
a$ = "*****)   a$ = "*****" for i = 1 to 5
for i = 1 to Len(a$) for j = 1 to 5
print Mid$(a$, i, 1) print Left$(a$, i)   print "*"
Next i           Next i           Next j
End             End             Print
                                   Next i
                                   End
```

2. WAP to generate the following output.

```
*****          * * * * *
****             *   *
***              *   *
**               *   *
*                *
Cls              Cls
```

```

a$ = "*****"          a$ = "*"
for i = Len(a$) to 1 Step -1  print TAB(20); "*" * * * *
print Left$(a$, i)          for i = 1 to 3
Next i                      print TAB(20+i); @$; TAB(29-i); a$
End                          Next i
                             Print TAB(25); a$
                             End

```

3. WAP to generate the following output.

```
*****
```

```
*****
```

```
*****
```

```
***
```

```
*
```

```
Cls
```

```
a$ = "*****"
```

```
c = 9: b = 30
```

```
For i = 1 to 5
```

```
Print Tab(b); Mid$(a$, i, c)
```

```
c = c - 2
```

```
b = b + 1
```

```
Next i
```

```
End
```

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“Stay Warm, Stay Happy, Stay Home”

Enjoy your holidays !

Happy new year 2022 !