

**BASIC PROGRAMS – HALF YEARLY
CLASS 5**

- 1. WAP to assign 1500 as cost price to a variable CP and 1700 as selling price to another variable SP. Now find profit and print with proper message.**

[Profit=SP-CP]

```
10 CLS
20 LET CP=1500
30 LET SP=1700
40 LET P=SP-CP
50 PRINT "THE PROFIT IS"; P
60 END
```

- 2. WAP to display the names of the five different vegetables in separate lines.**

```
10 CLS
20 PRINT "POTATO"
30 PRINT "ONION"
40 PRINT "CARROT"
50 PRINT "BRINJAL"
60 PRINT "RADISH"
70 END
```

- 3. WAP to assign the values 10, 20 and 30 to suitable variables. Calculate and display the sum and product.**

```
10 CLS
20 LET A=10
30 LET B=20
40 LET C=30
50 LET S=A+B+C
60 LET P=A*B*C
70 PRINT "THE SUM IS"; S
80 PRINT "THE PRODUCT IS"; P
90 END
```

4. **WAP to store your name, class, roll number and name of school and print them in separate lines.**

```
10 CLS
20 LET N$= "AYUSH"
30 LET C =5
40 LET R =17
50 LET S$ ="MOUNT HERMON"
60 PRINT "NAME"; N$
70 PRINT "CLASS"; C
80 PRINT "ROLL NUMBER"; R
90 PRINT "NAME OF SCHOOL"; S$
100 END
```

5. **The length of a rectangular field is 400 and its breadth is 200. WAP in BASIC to calculate area and perimeter. [Area=length x breadth, Perimeter = 2 x (length + breadth)]**

```
10 CLS
20 LET L=400
30 LET B=200
40 LET A=L*B
50 LET P=2*(L+B)
60 PRINT "AREA"; A
70 PRINT "PERIMETER"; P
80 END
```

6. **WAP to store the words "I", "LOVE" and "COMPUTER" in three different variables, and print the words in the following format given below:-**

```
  I
  LOVE
  COMPUTER
10 CLS
20 LET A$="I"
30 LET B$="LOVE"
40 LET C$="COMPUTER"
50 PRINT A$
60 PRINT B$
70 PRINT C$
80 END
```

7. WAP to find and display the area of a class room whose length is 15 and breadth is 12.

[Area=length x breadth]

```
10 CLS
20 LET L=15
30 LET B=12
40 LET A=L*B
50 PRINT "AREA"; A
70 END
```

**8. If two angles of a triangle are 50 and 70. WAP to display the third angle.
[third angle=180-(sum of two angles)]**

```
10 CLS
20 LET A=50
30 LET B=70
40 LET C=180-(A+B)
50 PRINT "THIRD ANGLE"; C
60 END
```

9. The sum of two numbers is 8905. If one of the numbers is 7050. WAP to find the other number.

```
10 CLS
20 LET A=8905
30 LET B=7050
40 LET C=A-B
50 PRINT "THE NUMBER IS"; C
60 END
```

**10. The population of a town was 437280 in 2012 and in 2015 it became 456079.
WAP to find the increase in population.**

```
10 CLS
20 LET A=456079!
30 LET B=437280!
40 LET C=A-B
50 PRINT "POPULATION INCREASED"; C
60 END
```

11. WAP to convert 7658m into km.[1 km=1000m]

```
10 CLS
20 LET M=7658
30 LET KM=M/1000
40 PRINT KM
50 END
```

12. WAP to assign 540 in a variable. Display and find 10% of 540.

```
10 CLS
20 LET A=540
30 LET B=(A*10)/100
40 PRINT B
50 END
```

13. WAP to assign marks of three subjects and display the sum and average.

```
10 CLS
20 LET E=45
30 LET M=50
40 LET H=58
50 LET S= E+M+H
60 LET A=S/3
70 PRINT "SUM=";S
80 PRINT "AVERAGE=";A
90 END
```

14. WAP to assign two numbers and display their sum and product.

```
10 CLS
20 LET A=7
30 LET B=5
40 LET S=A+B
50 LET P=A*B
60 PRINT "SUM"; S
70 PRINT "PRODUCT"; P
80 END
```

15. WAP to assign principal, time and rate. Display the simple interest.[$SI=(P*T*R)/100$]

```
10 CLS
20 LET P=1000
30 LET T=2
40 LET R=5
50 LET SI=(P*T*R)/100
60 PRINT "THE SI IS"; SI
70 END
```

16. WAP to display the names of four different planets in separate lines.

```
10 PRINT "MERCURY"
20 PRINT "JUPITER"
30 PRINT "MARS"
40 PRINT "EARTH"
50 END
```

17. WAP to find the area of a tennis table whose length is 7 ft and width is 5 ft.

[AREA=LENGTH X WIDTH]

10 CLS

20 LET L=7

30 LET W=5

40 LET A=L*W

50 PRINT "AREA"; A

60 END

18. WAP to find each side of a square when the perimeter of the square is 308 m.

[SIDE=PERIMETER/4]

10 CLS

20 LET P=308

30 LET S=P/4

40 PRINT "SIDE"; S

50 END

19. If a bus carries 55 people. WAP to display how many people will be carried in 40 such busses.

10 CLS

20 LET P=55

30 LET B=40

40 LET NP=P*B

50 PRINT "TOTAL NO. OF PEOPLE"; NP

60 END

20. WAP to display the quotient if the dividend is 4265 and the divisor is 5.

10 CLS

20 LET D=4265

30 LET DI=5

40 LET Q=D/DI

50 PRINT "QUOTIENT"; Q

60 END

21. WAP to print the total and average of 5 given numbers. The numbers are 10,20,30,40,50.

```
10 CLS
20 LET A=10
30 LET B=20
40 LET C=30
50 LET D=40
60 LET E=50
70 LET T=A+B+C+D+E
80 LET AVG=T/5
90 PRINT "TOTAL"; T
100 PRINT "AVERAGE"; AVG
110 END
```

22. WAP to store your name, age and address in suitable variables and print the same in the format given below:-

NAME:
AGE:
ADDRESS:

```
10 CLS
20 LET N$="ANIMESH"
30 LET A=14
40 LET ADD$="ASANSOL"
50 PRINT "NAME: ";N$
60 PRINT "AGE: ";A
70 PRINT "ADDRESS: ";ADD$
80 END
```

23. If the product of two given numbers is 162 and one of the numbers is 3. WAP to calculate and print the LCM of the two numbers.

[LCM=PRODUCT/GIVEN NO.]

```
10 CLS
20 LET P=162
30 LET N=3
40 LET LCM=P/N
50 PRINT LCM
60 END
```

24. WAP to print the following pattern:-

```
@@@@@@
 @@@@@
  @@@@@
   @@@@
    @@@
     @@
      @
```

```
10 PRINT "@@@@@@"
20 PRINT " @@@@@@"
30 PRINT "  @@@@@@"
40 PRINT "   @@@@@@"
50 PRINT "    @@@@"
60 PRINT "     @@"
70 PRINT "      @"
80 END
```

25. WAP to print the following pattern:-

```
#####
#####
#####
####
###
##
#
```

```
10 PRINT "#####"
20 PRINT "#####"
30 PRINT "#####"
40 PRINT "####"
50 PRINT "###"
60 PRINT "##"
70 PRINT "#"
80 END
```

26. WAP to print the following pattern:-

```
@#@#@#
#@#@#
 @#@#
  #@#
   #@
    #@
     @
```

```
10 PRINT "@#@#@#"
20 PRINT "#@#@#"
30 PRINT "@#@#"
40 PRINT "#@#@"
50 PRINT "@#@"
60 PRINT "#@"
70 PRINT "@"
80 END
```

27. WAP to print the following pattern:-

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

```
10 PRINT "C"
20 PRINT " O"
30 PRINT "M"
40 PRINT " P"
50 PRINT "U"
60 PRINT " T"
70 PRINT "E"
80 PRINT " R"
90 END
```

28. WAP to print the following pattern:-

```
CO
 MP
  UT
   ER
    CO
   MP
  UT
 ER
```



```
10 PRINT "CO"  
20 PRINT "  MP"  
30 PRINT "    UT"  
40 PRINT "      ER"  
50 PRINT "        CO"  
60 PRINT "    MP"  
70 PRINT "  UT"  
80 PRINT "ER"  
90 END
```

29. WAP to display the pattern given below:-

```
**  
***  
****  
*****  
****  
***  
**
```

```
10 CLS  
20 PRINT "***"  
30 PRINT "****"  
40 PRINT "*****"  
50 PRINT "*****"  
60 PRINT "*****"  
70 PRINT "****"  
80 PRINT "***"  
90 END
```

30. WAP to display the following on the screen:

C	10 CLS
CO	20 PRINT "C"
COM	30 PRINT "CO"
COMP	40 PRINT "COM"
COMPU	50 PRINT "COMP"
COMPUT	60 PRINT "COMPU"
COMPUTE	70 PRINT "COMPUT"
COMPUTER	80 PRINT "COMPUTE"
	90 PRINT "COMPUTER"
	100 END