BASIC PROGRAMS
FINAL TERM
2019 – 2020
CLASS 5

FINAL TERM SYLLABUS:

1. Print with Comma & Semicolon

2. INPUT, AUTO, SAVE, LOAD

3. 1st. Term BASIC syllabus to be included

---

1. WAP to input the side of a square and display its area. [AREA = SIDE × SIDE]

```
10 CLS
20 INPUT "Enter side";S
30 LET A = S * S
40 PRINT “Area = ”; A
50 END
```

2. WAP to input length and breadth of a rectangle and display its area. [AREA = LENGTH × BREADTH]

```
10 CLS
20 INPUT "Enter length";L
30 INPUT "Enter breadth"; B
40 LET A = L * B
50 PRINT “Area = ”; A
60 END
```

3. WAP to input your friend’s name, class and address and then print them in separate zones.

```
10 CLS
20 INPUT "Enter friend’s name";N$
30 INPUT "Enter class";C
40 INPUT "Enter address";A$
50 PRINT “Friend’s name = ”; N$,
60 PRINT “Class = ”; C,
70 PRINT “Address = ”; A$
80 END
```

4. WAP to input time in hour and convert the time in minutes. [1 Hour = 60 Minutes]

```
10 CLS
20 INPUT “Enter time in hours”; H
30 LET M = H * 60
40 PRINT “Time in minutes = ”; M
50 END
```

5. WAP to calculate the square and cube of any number.

```
10 CLS
20 INPUT "Enter any number"; N
30 LET S = N ^ 2
40 LET C = N ^ 3
50 PRINT “Square = ”; S
60 PRINT “Cube = ”; C
70 END
```

6. WAP to accept temperature in centigrade and convert it into Fahrenheit. [F = 9 / 5 * C + 32]

```
10 CLS
20 INPUT "Enter temperature in Centigrade";C
30 LET F = 9 / 5 * C + 32
40 PRINT “Temperature in Fahrenheit”; F
50 END
```

7. WAP to accept temperature in Fahrenheit and convert it into centigrade. [C = 5 / 9 * (F - 32)]

```
10 CLS
20 INPUT "Enter temperature in Fahrenheit"; F
30 LET C = 5 / 9 * (F - 32)
40 PRINT “Temperature in Centigrade”; C
50 END
```

8. WAP to accept any three numbers. Calculate and display the sum and average of the numbers with proper message.

```
10 CLS
20 INPUT "Enter first number"; N1
30 INPUT "Enter second number"; N2
40 INPUT "Enter third number"; N3
50 LET S = N1 + N2 + N3
60 LET AVG = S / 3
70 PRINT "The sum = "; S
80 PRINT "The average = "; AVG
90 END
```

9. WAP to input two angles of a triangle. Display the third angle. [Third Angle = 180 - (Sum of two angles)]

```
10 CLS
20 INPUT "Enter first angle"; A
30 INPUT "Enter second angle"; B
40 LET T = 180 - (A + B)
50 PRINT “Third angle = ”; T
60 END
```

10. WAP to accept the cost price and selling price of an article. Display the profit. [P = SP - CP]

```
10 CLS
20 INPUT "Enter the cost price"; CP
30 INPUT "Enter the selling price"; SP
40 LET P = SP - CP
50 PRINT “Profit = ”; P
60 END
```

11. WAP to accept the cost price and selling price of an article. Display the loss. [L = CP - SP]

```
10 CLS
20 INPUT "Enter cost price"; CP
30 INPUT "Enter selling price"; SP
40 LET L = CP - SP
50 PRINT “Loss = ”; L
60 END
```

12. WAP to input principal, time and rate. Display the simple interest and amount. [SI = (P * T * R) / 100, AMT = P + SI]

```
10 CLS
20 INPUT "Enter principal"; P
30 INPUT "Enter time"; T
40 INPUT "Enter rate"; R
50 LET SI = (P * T * R) / 100
60 LET A = P + SI
70 PRINT “Simple Interest = ”; SI
80 PRINT “Amount = “; A
90 END
```

13. WAP to input a number and display the fourth multiple of the number with proper message. [4TH MULTIPLE= 4 × NUMBER]

```
10 CLS
20 INPUT "Enter a number"; N
30 LET M = 4 * N
40 PRINT “The fourth multiple = ”; M
50 END
```

14. WAP to print the pattern

$$$$$
$$$
$
$$$
$$$$$

```
10 CLS
20 PRINT "$$$$$"
30 PRINT " $$$"
40 PRINT " $"
50 PRINT " $$$"
60 PRINT "$$$$$"
70 END
```

15. WAP to store the words “I”, “PLAY” and “CRICKET” in three different variables, and print the words in the following format given below:

I
PLAY
CRICKET

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

16. WAP to print the following pattern:

&&&&&&&
&&&&&&
&&&&&
&&&&
&&&
&&
&

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

17. WAP to print the following pattern:

B
BA
BAS
BASI
BASIC
BASIC
BASI
BAS
BA
B

```
10 CLS
20 PRINT "B"
30 PRINT "BA"
40 PRINT "BAS”
50 PRINT “BASI"
60 PRINT "BASIC"
70 PRINT "BASIC"
80 PRINT "BASI"
90 PRINT "BAS"
100 PRINT "BA"
110 PRINT "B"
120 END
```

18. WAP to assign the letters of “BASIC” in five different variables and print them in different zones.

```
10 CLS
20 LET A$ = "B"
30 LET B$ = "A"
40 LET C$ = "S"
50 LET D$ = "I"
60 LET E$ = "C"
70 PRINT A$, B$, C$, D$, E$
80 END
```

19. WAP to input 5 numbers and print the total and average of those numbers.

```
10 CLS
20 INPUT “Enter first number”; A
30 INPUT “Enter second number”; B
40 INPUT “Enter third number”; C
50 INPUT “Enter fourth number”; D
60 INPUT “Enter fifth number”; E
70 LET T = A + B + C + D + E
80 LET AVG = T / 5
90 PRINT “Total = “; T
100 PRINT “Average = ”; AVG
110 END.
```

20. WAP to assign and print the following format:-
RAIN RAIN GO AWAY
RAINRAINGOAWAY

```
10 CLS
20 LET A$ = “RAIN”
30 LET B$ = “GO”
40 LET C$ = “AWAY”
50 PRINT A$, A$, B$, C$
60 PRINT A$; A$; B$; C$
70 END
```

21. WAP to input 5 names and display them in separate lines. 10 CLS 20 INPUT “Enter 5 names”; A$, B$, C$, D$, E$

```
30 PRINT A$
40 PRINT B$
50 PRINT C$
60 PRINT D$
70 PRINT E$
80 END
```

22. WAP to input time in minute and convert the time in second. [SEC = MIN × 60]

```
10 CLS
20 INPUT “Enter time in minutes”; M
30 LET S = M * 60
40 PRINT “Time in seconds = ”; S
50 END
```

23. WAP to input time in second and convert the time in minutes. [MIN = SEC / 60]

```
10 CLS
20 INPUT “Enter time in seconds”; S
30 LET M = S / 60
40 PRINT “Time in minutes”; M
50 END
```

24. WAP to input time in minute and convert the time in hours. [HOUR = MIN / 60]

```
10 CLS
20 INPUT “Enter time in minutes”; M
30 LET H = M / 60
40 PRINT “Time in hours”; H
50 END
```

25. WAP to input time in second and convert the time in hour. [HOUR = SEC / 3600]

```
10 CLS
20 INPUT “Enter time in seconds”; S
30 LET H = S / 3600
40 PRINT “Time in hours = ”; H
50 END
```

26. WAP to input time in hour and convert the time in second. [SEC = HOUR × 3600]

```
10 CLS
20 INPUT “Enter time in hours”; H
30 LET S = H * 60 * 60
40 PRINT “Time in seconds = ”; S
50 END
```

27. WAP to input principal, time and SI. Display the rate.
[R = (SI × 100) / (P × T)]

```
10 CLS
20 INPUT “Enter Principal”; P
30 INPUT “Enter Time”; T
40 INPUT “Enter Simple Interest”;SI
50 LET R = (SI * 100) / (P * T)
60 PRINT “Rate = “; R
70 END
```

28. WAP to input principal, rate and SI. Display the time. [T = (SI × 100) / (P × R)]

```
10 CLS
20 INPUT “Enter Principal”; P
30 INPUT “Enter Rate”; R
40 INPUT “Enter Simple Interest”; SI
50 LET T = (SI * 100) / (P * R)
60 PRINT “Time = “; T
70 END
```

29. WAP to input rate, time and SI. Display the principal. [P = (SI × 100) / (R × T)]

```
10 CLS
20 INPUT “Enter Rate”; R
30 INPUT “Enter Time”; T
40 INPUT “Enter Simple Interest”; SI
50 LET P = (SI * 100) / (R * T)
60 PRINT “Principal = “; P
70 END
```

30. WAP to find each side of a square when the perimeter of the square is 160 m. [SIDE = PERIMETER / 4]

```
10 CLS
20 LET P = 160
30 LET S = P / 4
40 PRINT “Side = “; S
50 END
```

****