a. Write a program to generate different series.

1, 2, 3, 4, 5, ……10th

```
Cls
For i = 1 To 10
Print i;
Next i
End
```

1, 3, 5, 7, ……10th

```
Cls
For i = 1 To 10              Step 2
  Print i;
Next i
End
```

1, 4, 9, 16, 25, 36, … 10th

```
Cls
For i = 1 To 10
  Print i ^ 2;
Next i
End
```

2, 8, 18, 32, …. 10th

```
Cls
For i = 1 To 10
  Print 2 * i ^ 2;
Next i
End
```

1, 2, 4, 7, …. 10th

```
Cls
s = 1
For i = 1 To 10
  Print s;
  s = s + i
Next i
End
```

5, 10, 20, 35, … 10th

```
Cls
s = 5
For i = 5 To 100             Step 5
  Print s;
  s = s + i
Next i
End
```

1, 5, 9, 13, 17, ….10th

```
Cls
For i = 1 To 100             Step 4
  Print i;
Next i
End
```

1, 1, 2, 3, 7, … 10th (Fibonacci)

```
Cls
a = 1
b = 1
Print a
For i = 1 To 10
   c = a + b
   Print c
   a = b
   b = c
Next i
End
```

b. Write a program to calculate sum of n-natural number.

```
Cls
s = 0
For i = 1 To 100
   s = s + i
Next i
Print s
End
```

c. Write a program to calculate product of n-natural number. (factorial of a given number)

```
Cls
s = 1
For i = 1 To 100
   s = s * i
Next i
Print s
End
```

d. Write a program to calculate sum of digits of a given number. Eg: 111 sum of 1+1+1 is 3

Logic: **r = n Mod 10**
s = s + r
n = n \ 10

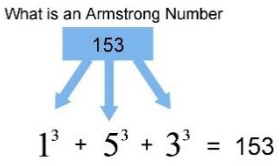
e. Write a program to calculate product of digits of a given number.

f. Write a program to reverse a given number. Eg: 123 reverse is 321

Logic: **r = n Mod 10**
s = s*10 + r
n = n \ 10

g. Write a program to check whether given number is palindrome or not. (Check whether reversed number is equal to original number or not)

h. Write a program to check whether given number is Armstrong or not.



i. WAP to reverse a string and check whether a string is palindrome or not

j. WAP to count vowels and consonant in given string.