- WRITE A PROGRAM TO FIND THE SUM OF SERIES 1! +2! +3!...+N!
- PROGRAM:-

```
n = int("enter n values:")
fact = 1
if(n==0):
    fact = 1
sum = 0
for i in range (1,n+1)!
    fact = fact*i
    sum = sum + fact
print(sum)
```

• OUTPUT:-

Enter n value = 7

5913

- WRITE A PROGRAM TO FIND SUM OF SERIES 9 +99+999+9999.....+N
- PROGRAM:-

```
n=int(input("Enter the range of number:"))
sum=0
p=9
for i in range(1,n+1):
    sum += p
    p=(p*10)+9
print("The sum of the series = ",sum)
```

• OUTPUT:-

Enter the range of number:8

The sum of the series = 111111102

- NUMBER PYRAMID REVERSE PYRAMID OF NUMBERS
- PROGRAM:-

```
rows = 6
for i in range(1, rows):
  for j in range(i, 0, -1):
    print(j, end=' ')
  print(" ")
```

- OUTPUT:-
- 1
- 21
- 321
- 4321
- 54321

- PYRAMID PATTERN RIGHT START PATTERN OF STAR
- PROGRAM:-

```
rows = 5
for i in range(0, rows):
  for j in range(0, i + 1):
     print("*", end=' ')
  print("\r")
for i in range(rows, 0, -1):
  for j in range(0, i - 1):
    print("*", end=' ')
  print("\r")
   • OUTPUT:-
```

- PRINT ALL THE LEAP YEAR FROM 1900 2000
- PROGRAM:-

```
print("Leap Years from 1900-2000 are: ")
for i in range(1900,2000):
    if(i%4==0):
        print(I, end='')
```

OUTPUT:-

Leap Years from 1900-2000 are:

1900 1904 1908 1912 1916 1920 1924 1928 1932 1936 1940 1944 1948 1952 1956 1960 1964 1972 1976 1980 1984 1988 1992 1996