```
# WAP to create and display upto n prime series (Ripunjay, Manasvi)
limit = int(input("Enter the limit : "))
print("The prime number series is as follows :- ")
for i in range(2,limit+1) :
    for j in range(2,i) :
        if i % j == 0 :
            break
    else :
        print(i , end = ' , ')
OUTPUT
```

Enter the limit : 10

The prime number series is as follows:-

2,3,5,7

```
#1 + x + x^2/\( \( \) 2 + x^3/\( \) 3 + ....... (Ripunjay, Manasvi)
x = int(input("Enter the series number : "))
n = int(input("Enter the number of terms : "))
sum = 0
for i in range(0 , n+1) :
    fact = 1
    for j in range(1 , i+1) :
        fact = fact * j
        term = (x**i)/fact
sum = sum + term
print("sum of",n,"terms of series is =" , sum)
```

# **OUTPUT**

Enter the series number: 2 Enter the number of terms: 20

sum of 20 terms of series is = 4.3099804121821766e-13

```
# 1 - x/\angle 1 + x^2/\angle 3 - x^3/\angle 5 + ..... \pm x^n/\angle 2n-1 (Ripunjay, Manasvi) x = int(input("Enter a Number : ")) n = int(input("Enter the Limit : ")) sum = 1 for i in range(1 , n+1) : fact = 1 for j in range(1 , 2*i) : fact = fact * j term = x^*i/fact if i\% 2 = 0 : sum = sum + term else : sum = sum - term print("Sum of Series = " , sum)
```

### **OUPUT**

Enter a Number : 2 Enter the Limit : 2

Sum of Series = -0.333333333333333333

```
# pyramidal numbers (Ripunjay, Manasvi)
n = int(input("Enter the number of rows = "))
for i in range(1 , n+1) :
    for j in range(1 , n-i+1) :
        print(end=" ")
    for j in range(i , 0 , -1) :
        print(j , end=" ")
    for j in range(2 , i+1) :
        print(j , end=" ")
    print()
```

# **OUTPUT**

Enter the number of rows = 5 1 212 32123 4321234 543212345

```
# To find the factorial of a number(Ripunjay,Manasvi)
a = int(input("Enter the number for factorial: "))
fact = 1
for i in range(a,0,-1):
    fact = fact*i
print("Factorial of",a,"is", fact)
```

# **OUTPUT**

Enter the number for factorial: 5 Factorial of 5 is 120