**PSPP EXPERIMENT NO : 4**

**PROBLEMS FOR CONTROL STATEMENTS**

**(GROUP: 4&10)**

1. Write a program to find the sum of series 1/2! +2/3! +3/4! +...n/n+1!

**SOURCE CODE:**

#Sum of Series

n = int(input("Enter no of terms:"))

f = 1

s = 0

for i in range (1,n+1):

f = f\*(i+1)

s = s+(i/f)

print("Sum of the series:",s)

**OUTPUT:**

Enter no of terms: 4

Sum of the series: 0.9916666666666666

1. Write a program to print fibannocci series

**SOURCE CODE:**

f1 = int(input("Enter first term:"))

f2 = int(input("Enter Second term:"))

n = int(input("Enter no of terms:"))

print(f1)

print(f2)

i = 0

while i<n-2:

f3 = f1+f2

print(f3)

f1 = f2

f2 = f3

i = i+1

**OUTPUT:**

Enter first term:0

Enter Second term:1

Enter no of terms:8

0

1

1

2

3

5

8

13

1. Inverted pyramid pattern with same digit

**SOURCE CODE:**

#Inverted number pyramid pattern

rows = int(input("Enter no of rows:"))

n = rows

for i in range(rows,0,-1):

for j in range(0,i):

print(n,end = " ")

print()

**OUTPUT:**

Enter no of rows:6

6 6 6 6 6 6

6 6 6 6 6

6 6 6 6

6 6 6

6 6

6

1. Pyramid pattern – Right down Mirror Star

**SOURCE CODE:**

rows =int(input("Enter no of rows:"))

for i in range(1,rows+1):

for j in range(1,rows+1):

if j<i:

print(' ',end=' ')

else:

print('\*',end = ' ')

print()

**OUTPUT:**

Enter no of rows:4

\* \* \* \*

\* \* \*

\* \*

\*

1. Reversing a number

**SOURCE CODE:**

#Reversing a number

n = int(input("Enter a number:"))

sum = 0

while n>0:

rem = n%10

sum = (sum\*10)+rem

n = n//10

print(sum)

**OUTPUT:**

Enter a number: 865

568