Expriment 4:

Program:

```python
#downward full pyramid pattern of star.
num=int(input("Enter the number of rows: "))
for i in range (num,0,-1):
 for j in range(0,i):
   print("*",end=" ")
 print()
```

Output:

```
Enter the number of rows: 6
* * * * * *
* * * * *
* * * *
* * *
* *
*
>>>
```

Program:

```python
#write python code for check the given no is amstrong no.
n=int(input("Enter a number: "))
sum=0
temp=n
while temp>0:
 d=temp%10
 sum+=d**3
 temp//=10
if n==sum:
```

```python
 print(n,"is an Armstrong number")
else:
 print(n,"is not an Armstrong number")
```

Output:

Enter a number: 665

665 is not an Armstrong number

>>>

Program:

```python
#write a program to find the sum of the series 2+4+6+8+....+n
n=int(input("Enter the value of n: "))
sum=0
for i in range(2,n+1,2):
    sum=sum + i
print("The sum of the series is", sum)
```

Output:

Enter the value of n: 6

The sum of the series is 12

>>>

Porgram:

```python
#write a program of the sum series 1+11+111+1111+....+N
n=int(input("Enter the value of N: "))
sum=0
for i in range(1,n+1):
    sum=sum+i*(10**(i-1))
print(sum)
```

Output:

Enter the value of N: 11

120987654321

>>>

Program:

```
rows=5
b=0
for i in range(rows,0,-1):
 b+=1
 for j in range(1,i+1):
   print(b,end="")
 print("/r")rogram:
```

Output:

1 1 1 1 1

2 2 2 2

3 3 3

4 4

5