

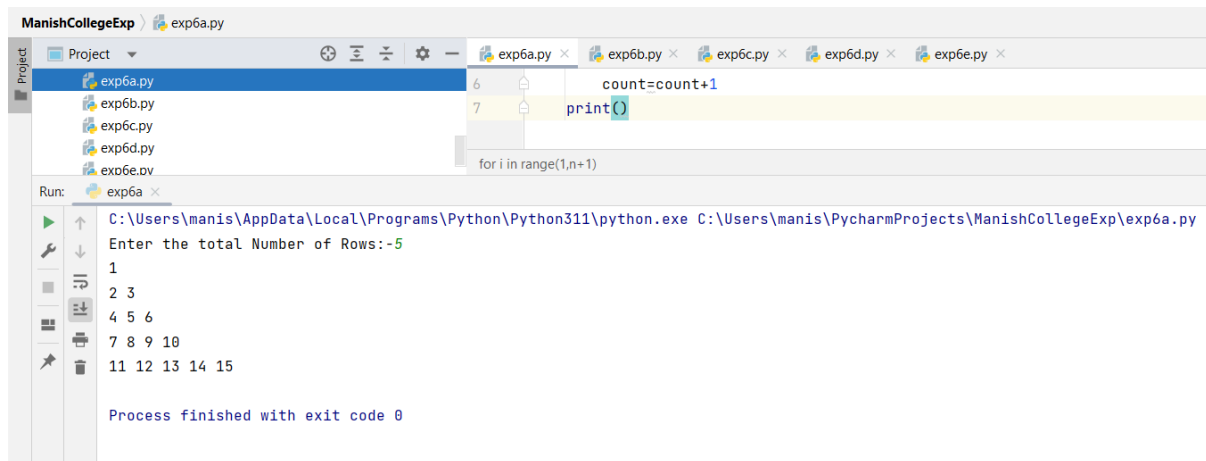
Experiment No.6

Aim: Edit/compile/run a program to display the Floyd Triangle

Program A:

```
n=int(input("Enter the total Number of Rows:-"))
count=1
for i in range(1,n+1):
    for j in range(1,i+1):
        print(count,end= ' ')
        count=count+1
    print()
```

Output:



Program B:

```
n=int(input("Enter the total Number of Rows:-"))
count=1
i=1
while(i<=n):
    j=1
    while(j<=i):
        print(count,end=' ')
        count=count+1
        j=j+1
    i=i+1
    print()
```

Output:

```

ManishCollegeExp > exp6b.py
Project
  exp6a.py
  exp6b.py
  exp6c.py
  exp6d.py
  exp6e.py
Run: exp6b
  C:\Users\manis\AppData\Local\Programs\Python\Python311\python.exe C:\Users\manis\PycharmProjects\ManishCollegeExp\exp6b.py
  Enter the total Number of Rows:-7
  1
  2 3
  4 5 6
  7 8 9 10
  11 12 13 14 15
  16 17 18 19 20 21
  22 23 24 25 26 27 28
  Process finished with exit code 0
  
```

Program C:

```

print("Enter the Number of Rows:",end="")
row=int(input())
num=1
for i in range(row):
    for j in range(i+1):
        print(num,end=' ')
        num=num+1
    print()
  
```

Output:

```

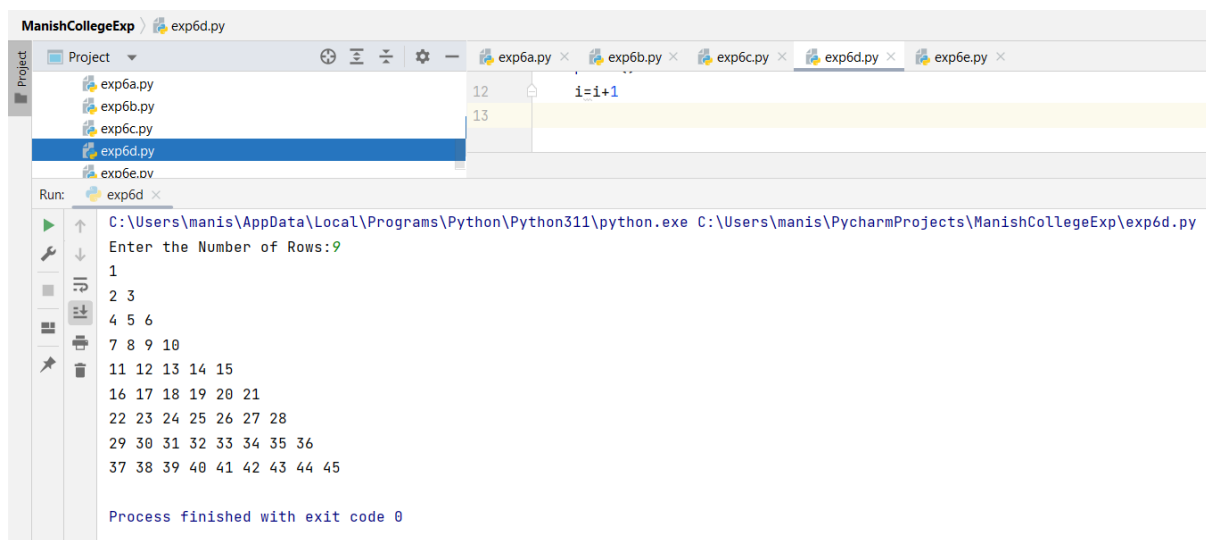
ManishCollegeExp > exp6c.py
Project
  exp6a.py
  exp6b.py
  exp6c.py
  exp6d.py
  exp6e.py
Run: exp6c
  C:\Users\manis\AppData\Local\Programs\Python\Python311\python.exe C:\Users\manis\PycharmProjects\ManishCollegeExp\exp6c.py
  Enter the Number of Rows:8
  1
  2 2
  3 3 3
  4 4 4 4
  5 5 5 5 5
  6 6 6 6 6 6
  7 7 7 7 7 7 7
  8 8 8 8 8 8 8 8
  Process finished with exit code 0
  
```

Program D:

```

print("Enter the Number of Rows:",end="")
row=int(input())
num=1
i=0
while i<row:
    j=0
    while j<i+1:
        print(num,end=' ')
        num=num+1
        j=j+1
    print()
    i=i+1

```

Output:**Program E:**

```

rows = int(input("Enter the number of rows: "))
# Pattern 1
print("\nPattern 1:")
number = 1
for i in range(1, rows+1):
    for j in range(1, i+1):
        print(number, end=" ")
        number += 1
    print()
    number -= 1
for i in range(rows-1, 0, -1):
    for j in range(i, 0, -1):
        print(number, end=" ")
        number -= 1
    print()

```

Python Experiment No. 6

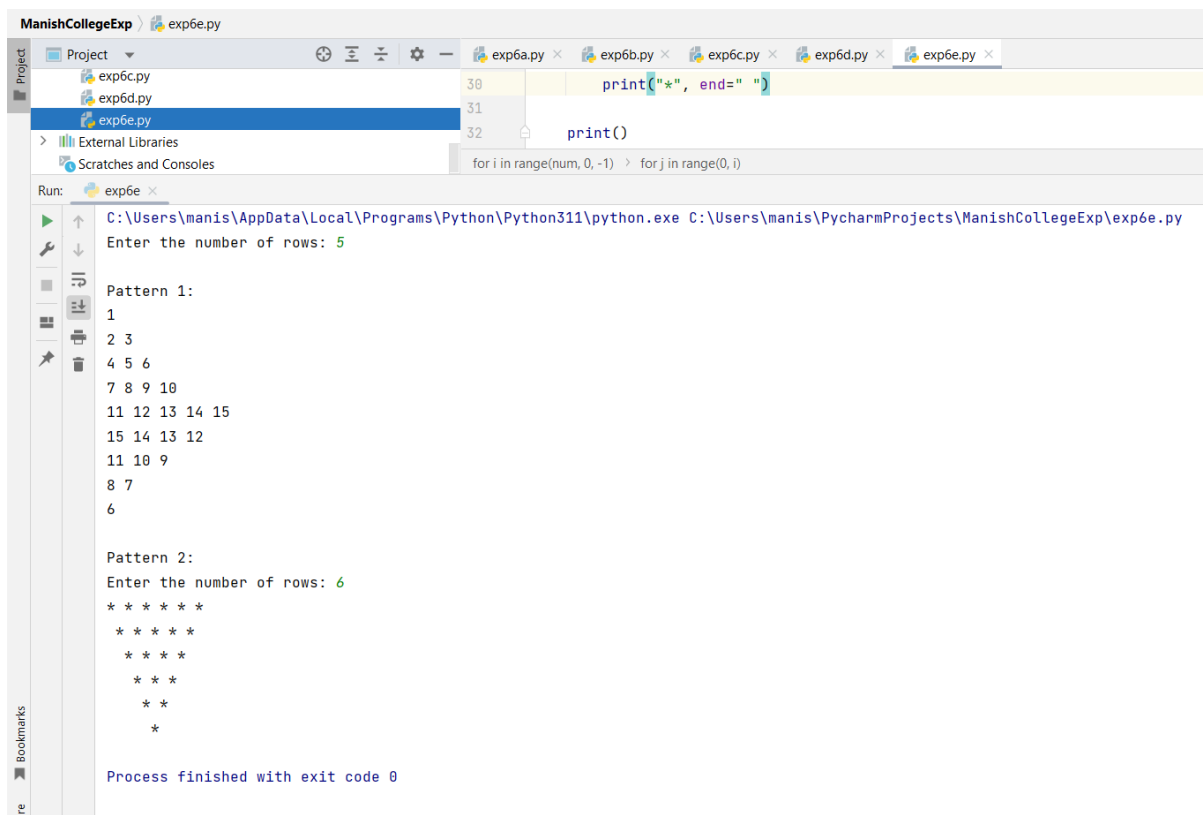
```
#Pattern 2
print("\nPattern 2:")
num = int(input("Enter the number of rows: "))
for i in range(num, 0, -1):

    for j in range(0, num - i):
        print(end=" ")

    for j in range(0, i):
        print("*", end=" ")

    print()
```

Output:



```
ManishCollegeExp > exp6e.py
exp6c.py
exp6d.py
exp6e.py
> External Libraries
Scratches and Consoles
Run: exp6e
C:\Users\manis\AppData\Local\Programs\Python\Python311\python.exe C:\Users\manis\PycharmProjects\ManishCollegeExp\exp6e.py
Enter the number of rows: 5

Pattern 1:
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
15 14 13 12
11 10 9
8 7
6

Pattern 2:
Enter the number of rows: 6
* * * * *
* * * * *
* * * *
* * *
* *
*

Process finished with exit code 0
```

Program F:

```
row = int(input("Enter the number of rows: "))
number = 1
for i in range(1, row+1):
    for j in range(1, i+1):
        print(number, end=" ")
        number += 1
    print()
    number -= 1
for i in range(row-1, 0, -1):
    for j in range(i, 0, -1):
        print(number, end=" ")
        number -= 1
    print()
    number = 1
for i in range(1, row+1):
    for j in range(1, i+1):
        print(number, end=" ")
        number += 1
    print()
```

Output:

The screenshot shows the PyCharm IDE interface. The top toolbar includes icons for running and debugging. The 'Run' tab is active, showing the command: `C:\Users\manis\AppData\Local\Programs\Python\Python311\python.exe C:\Users\manis\PycharmProjects\ManishCollegeExp\exp6f.py`. The console output is as follows:

```
Enter the number of rows: 5
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
15 14 13 12
11 10 9
8 7
6
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
Process finished with exit code 0
```

Practical Performance (4)	Writeup & Oral (4)	Attendance (2)	Total (10)