Lab task no 9

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Contents

Program no 1

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

```
print()
print()
```

Output no 1

```
C:\Users\User\PycharmProjects\lab_09\venv\S
Enter the number of rows :5
*
**
***
****
*****


*****
****
***
**
*
```

```
*****
 ****
  ***
   **
    *

    *
   **
  ***
 ****
*****

Process finished with exit code 0
```

Program no 2

```python
x = input("Enter the symbol you want to
draw the diagram with :")

def shape_function(y,x):
    for i in range(y):
        for j in range(i):
            print(x, end="")
        print()
    for k in range(y, -1, -1):
        for l in range(k):
            print(x, end="")
        print()
shape_function(5,x)
```

Output no 2

```
Enter the symbol you want to draw the diagram with :o

o
oo
ooo
oooo
ooooo
oooo
ooo
oo
o
```

Program no 3

```python
for i in range(3):
    name = input("Enter the name of the student :")
    sum = 0
    for j in range(1,4):

        score = int(input("Enter score"+str(j)+" :"))

        sum = sum+score
    print("Name :",name)
    print("Average:",round(sum/3,2))
```

Output no 3

```
C:\Users\User\PycharmProjects\lab_09\venv\Scripts\python.exe
Enter the name of the student :omer
Enter score 1:25
Enter score 2:65
Enter score 3:85
Name :  omer
Average: 58.33
Enter the name of the student :jouhar
Enter score 1:78
Enter score 2:45
Enter score 3:12
Name :  jouhar
Average: 45.0
Enter the name of the student :muhammad zeeshan
Enter score 1:78
Enter score 2:65
Enter score 3:25
Name :  muhammad zeeshan
Average: 56.0


Process finished with exit code 0
```

Program no 4 (Additional task)

```python
n = int(input("Enter the total number of
rows :"))
x = input("Enter the symbol you want to
draw the shape with :")
def triangle function(n,x):
    a = (2 * n) - 1
```

```
    for i in range(n):
        for j in range(a):
            print(end=" ")
        a -= 1
        for l in range(i + 1):
            print(x, end=" ")
        print()
triangle function(n,x)
```

Output no 4 (Additional task)

```
C:\Users\User\PycharmProjects\lab_09\venv\Scripts\python.exe "C:
Enter the total number of rows :5
Enter the symbol you want to draw the shape with :%
        %
       % %
      % % %
     % % % %
    % % % % %


Process finished with exit code 0
```