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Q1:

this program give us a triangle

```
num = int(input('enter number'))
```

```
for i in range(num):
```

```
    for j in range(i+1):
```

```
        print('*',end="")
```

```
    print()
```

output:

```
enter number5
*
**
***
****
*****
```

Code:

```
num = int(input('enter number'))
```

```
for i in range(num,0,-1):
```

```
    for j in range(i):
```

```
        print('*',end="")
```

```
    print()
```

output:

```
enter number4
****
***
**
*
```

Code:

```
num = int(input('enter number'))  
for i in range(0,num):  
    for j in range(i):  
        print(' ',end="")  
    for k in range(num,i,-1):  
        print('*',end="")  
    print()
```

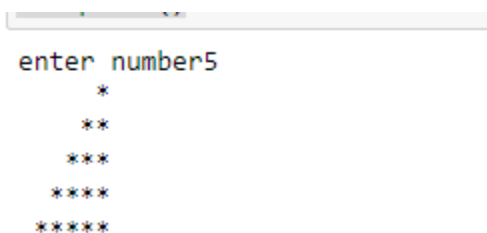
output:

```
enter number5  
*****  
  ****  
   ***  
    **  
     *
```

Code:

```
num = int(input('enter number'))  
for i in range(num,0,-1):  
    for j in range(i):  
        print(' ',end="")  
    for k in range(i,num+1):  
        print('*',end="")  
    print()
```

ouput:



```
enter number5  
  *  
 **  
***  
****  
*****
```

Q2:

this programs builds a piramid for user using desire symbols

```
symbol = input("enter your desire symbol")
```

```
num = int(input('enter number'))
```

```
for i in range(num+1):
```

```
    for j in range(i+1):
```

```
        print(symbol,end="")
```

```
    print()
```

```
for i in range(num,0,-1):
```

```
    for j in range(i):
```

```
        print(symbol,end="")
```

```
    print()
```

output:

```
enter your desire symbol%
enter number4
%
%/
%/
%/
%/
%/
%/
%/
%/
%/
%/
%
```

Q3:

this programs calculate the average numbers for a student

```
counter = 1
```

```
Counter = 1
```

```
for i in range(3):
```

```
    Sum = 0
```

```
    sName = input('enter name of student{}:'.format(counter))
```

```

for j in range(3):
    score = int(input('Enter score{}'.format(Counter)))
    Counter+=1
    Sum += score
print('Name:',sName)
print('Average: ',round(Sum/3,2))
Counter=1
counter+=1

```

output:

```

enter name of student1:aixax
Enter score1:89
Enter score2:98
Enter score3:78
Name: aixax
Average: 88.33
enter name of student2:faixan
Enter score1:37
Enter score2:90
Enter score3:89
Name: faixan
Average: 72.0
enter name of student3:soma
Enter score1:45
Enter score2:76
Enter score3:78
Name: soma
Average: 66.33

```

EXTRA TASKS:

Q1:

this programs build a piramid for user

```
num = int(input('enter number of rows:'))
```

```
symbol = input('enter symbol:')

```

```

for i in range(num,0,-1):
    for j in range(i):
        print(' ',end="")
    for k in range(i,num+1):
        print(symbol,end="")
# for i in range(num):
    for l in range(i,num):
        print(symbol,end="")
print()

```

output:

```

enter number of rows:5
enter symbol:#
#
###
#####
#####
#####
#####

```

Q2;

this program builds us a diamond with our desired rows and symbol

```
num = int(input('enter number'))
```

```
symbol = input('enter symbol:')
```

```
for i in range(num,0,-1):
```

```
    for j in range(i):
```

```
        print(' ',end="")
```

```
    for k in range(i,num+1):
```

```
        print(symbol,end="")
```

```
    for l in range(i,num):
```

```
        print(symbol,end="")
```

```
print()
```

```

for i in range(num+1):
    for j in range(i):
        print(' ',end="")
    for k in range(num,i,-1):
        print(symbol,end="")
    for l in range(i,num+1):
        print(symbol,end="")
    print()

```

output:

```

enter number4
enter symbol:@
  @
 @@@
@@@@@
@@@@@@@
@@@@@@@@@
@@@@@@@@@@@
@@@@@@@@@@@
@@@@@@@@@@@
@@@@@@@@@
 @@@@
  @

```