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In [89]: #Exercise 1
for row in range(1,6):
    for col in range(1,row+1):
        print(col, end=" ")
    print()
```

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

```
In [17]: #Exercise 2
num=123456
count=0
while(num%10):
    count+=1
    num//=10
    num=int(num)

print("Total Digits: ",count)
```

Total Digits: 6

```
In [18]: #Exercise 3
def info(name,age):
    print("User Name: ",name)
    print("User Age: ",age)
info("Fardin",25)
```

User Name: Fardin
User Age: 25

```
In [21]: #Exercise 4
def cal(num1,num2):
    add=num1+num2
    sub=num1-num2

    return add,sub
addition,subtraction=cal(5,10)
print(addition," ",subtraction)
```

15 -5

```
In [77]: #Exercise 5
def recursion(a):
    if(a):
        return a+recursion(a-1)
    else:
        return 0
n=recursion(10)
print(n)
```

55

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In [75]: #Exercise 6
def factorial(a):
    if(a):
        return a * factorial(a-1)
    else:
        return 1

n=factorial(5)
print(n)
```

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In [90]: def rev(name,ln):
    if(ln>=0):
        return name[ln]+ rev(name,ln-1)
    else:
        return ""
n=rev("fardin",5)
print(n)
```

nidraf

In []: