1. Write a function to calculate the multiplicationa and sum of two numbers

```
In [5]:  def sum_and_product(a,b):
             mult = a*b
             sum=a+b
             print('SUM:',sum,   'PRODUCT:',mult)
         sum_and_product(2,3)
```

```
SUM: 5 PRODUCT: 6
```

2. Write a function to print the sum of the current number and the previous numberr

```
In [9]:  def sum_and_product(num):
             previous = 0
             for i in range(num):
                 sum = previous + i
                 print(sum)
                 previous = i
         print("print current and previous")
         sum_and_product(3)
```

```
print current and previous
0
1
3
```

3.Write a function to print characters from a string that are present at an even index number

```
In [ ]:  string =input('enter a string')
         even_chars = []
         for i in range(len(string)):
             if i % 2 == 0:
                 even_chars.append(string[i])
         print('Even characters: {}'.format(even_chars))
```

4.Write a function to remove first characters from a string

In [1]:
```python
string =input('enter any string:')
def remove_char(string):
    print(string[1:])
remove_char(string)
```

```
enter any string:loice
oice
```

5.Write a function to check if the first and last number of a list is the same

In [2]:
```python
list = [1,2,3,4,5,6,7,8,]
def first_last(list):
    if list[0] == list[-1]:
        print('they are the same')
    else:
        print('not the same')
first_last(list)
```

```
not the same
```

6. Write a function to print multiplication table from 1 to 10

In [3]:
```python
def multiplication_table(start, stop):
    for x in range(start,stop+1):
        for y in range(start,stop+1):
            print(str(x*y), end=" ")
        print()

multiplication_table(1, 10)
```

```
1 2 3 4 5 6 7 8 9 10
2 4 6 8 10 12 14 16 18 20
3 6 9 12 15 18 21 24 27 30
4 8 12 16 20 24 28 32 36 40
5 10 15 20 25 30 35 40 45 50
6 12 18 24 30 36 42 48 54 60
7 14 21 28 35 42 49 56 63 70
8 16 24 32 40 48 56 64 72 80
9 18 27 36 45 54 63 72 81 90
10 20 30 40 50 60 70 80 90 100
```

7.Given a two list of numbers, write a function to create a new list such that the new list should contain odd numbers from the first list and even numbers from the second list. ¶

In [4]:
```python
l1 = [2,5,8,12,4,6,87,32,65]
l2 = [1,6,3,90,4,5,32,4]
l3 = [n for n in l1 if n%2]+[n for n in l2 if not n%2]
print(l3)
```

```
[5, 87, 65, 6, 90, 4, 32, 4]
```

In [ ]: