Give a two integer numbers return their product and if the product is greater the 1000, then return their sum

```
num1=int(input("enter no. 1:"))
num2=int(input("enter no. 2:"))
product=num1*num2 res=(num1+num2)if
product > 1000 else product
print(res)
```

Given a range of first 10 numbers, iterate from start number to the end number and print the sum of the current number and previous number Ans:-

```
num=list(range(10)) previousNum=0 for i in num:
    sum = previousNum + i print('current number' + str(i)
      + 'Privious Number' + str(previousNum) +'is' +
      str(sum))
    previousNum=i
```

Given a string , display only only those characters which are present at an even index number.

```
num=[10,20,30,40,10] if num[0]==num[-1]:
    print('Result is true')
else:
    print('Result is False')
```

Given a list of numbers, return True if first and last number of a list is same

Given two list. Create a third list by picking an odd-index element from the first list and even index element from second.

```
l1= eval(input("Enter first list:")) l2= eval(input("Enter second list:")) l3=l1+l2 print("Join List:", l3)
```

Given an input list removes the element at index 4 and add it to the 2nd position and also, at the end of the list.

Given a list slice it into a 3 equal chunks and reverse each list.

Given a list iterate it and count the occurrence of each element and create a dictionary to show the count of each element.

thislist=(1,3,5,7,5,4) x=thislist.count(5) print(x)

Add a list of elements to give a set:{‘yellow’, ’Orange’} list{blue, black} Ans:

```
sample_set={'Yellow', 'Orange'}
sample_list=["Blue", "Black"]
sample_set.update(sample_list) print(sample_set)
```

Print the following pattern

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5 Ans:-

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

calculate the sum of all number between 1 and given number

Ans:

```
list1=range(1,50)
sum1=sum(list1)
print(sum1)
```

Given a list iterate it and display numbers which are divisible by 5 and if you find number greater than 150 stop the loop iteration

```
list1=[12,15,32,43,55,122,134,135,150,180,200]
result=list(filter(lambda x:(x%5==0), list1))
print("Number divisible by 5 are",result)
```

Output:

Reverse the following list using for loop Ans:

```
list1=[10,20,30,40] list1.reverse()
print("use reverse()",list1) print("use
reverse()",list(reversed(list1)))
```

Write a Python program to display all the prime numbers within a range Ans:-

```
lower_value = int(input ("Please, Enter the Lowest Range Value: "))
upper_value = int(input ("Please, Enter the Upper Range Value: "))   print
("The Prime Numbers in the range are: ")   for number in range
(lower_value, upper_value + 1):       if number > 1:          for i in range (2,
number):              if (number % i) == 0:
            break
else:
        print (number)
```