

Program : 1

```
num1 = int(input("Enter Number 1 = "))
num2 = int(input("Enter Number 2 = "))
product = num1 * num2
if product > 1000:
    print("Sum is ", num1 + num2)
else:
    print("Product is ", product)
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assignement\Assignment 1\P1.py =====
Enter Number 1 = 5
Enter Number 2 = 10
Product is 50
>>> |
```

Program : 2

```
prevnum = 0
for i in range(1,11):
    print("Previous Number ", prevnum, "+ Current Number ", i, " Sum = ", prevnum + i)
    prevnum = i
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assignement\Assignment 1\P2.py =====
Previous Number 0 + Current Number 1 Sum = 1
Previous Number 1 + Current Number 2 Sum = 3
Previous Number 2 + Current Number 3 Sum = 5
Previous Number 3 + Current Number 4 Sum = 7
Previous Number 4 + Current Number 5 Sum = 9
Previous Number 5 + Current Number 6 Sum = 11
Previous Number 6 + Current Number 7 Sum = 13
Previous Number 7 + Current Number 8 Sum = 15
Previous Number 8 + Current Number 9 Sum = 17
Previous Number 9 + Current Number 10 Sum = 19
>>> |
```

Program : 3

```
string = str(input("Enter String = "))
for i in range(1,len(string),2):
    print(list(string)[i])
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assignement\Assignment 1\P3.py =====
Enter String = Hello Vnsgu
e
l

n
g
>>> |
```

Program : 4

```
listlen = int(input("Enter length of list = "))
userlist = []
for i in range(listlen):
    val = int(input("Enter " + str(i+1) + " element = "))
    userlist.append(val)
if userlist[0] == userlist[-1]:
    print("true")
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assignement\Assignment 1\P4.py =====
Enter length of list = 5
Enter 1 element = 25
Enter 2 element = 12
Enter 3 element = 30
Enter 4 element = 49
Enter 5 element = 25
true
>>> |
```

Program : 5

```
list1 = ["ABC","XYZ","PQR","MNO"]
list2 = [5,48,32,10,78,30]
list3 = list1[:2] + list2[1::2]
print(list3)
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assignement\Assignment 1\P5.py =====
['ABC', 'PQR', 48, 10, 30]
```

Program : 6

```
fruitlist = ["apple", "banana", "cherry", "grapes", "pineapple", "Mango"]
index4 = fruitlist[4]
del fruitlist[4]
fruitlist.insert(1,index4)
fruitlist.append(index4)
print(fruitlist)
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assignement\Assignment 1\P6.py =====
['apple', 'pineapple', 'banana', 'cherry', 'grapes', 'Mango', 'pineapple']
```

Program : 7

```
l = [12, 100, 53, 14, 52, 6, 72, 87, 2, 28, 41]
for i in range(0, len(l), 3):
    templist = l[i:i+3]
    templist.sort(reverse=True)
    print(templist)
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assignement\Assignment 1\P7.py =====
[100, 53, 12]
[52, 14, 6]
[87, 72, 2]
[41, 28]
```

Program : 8

```
l = [12, 100, 53, 14, 28, 100, 72, 87, 100, 28, 53, 12, 100]
```

```
dictionary = {}
```

```
for i in list(set(l)):
```

```
    dictionary[i] = l.count(i)
```

```
print(dictionary)
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assignement\Assignment 1\P8.py =====
{100: 4, 72: 1, 12: 2, 14: 1, 53: 2, 87: 1, 28: 2}
```

Program : 9

```
myset = {'yellow','orange'}
```

```
mylist = ['blue','black']
```

```
myset.update(mylist)
```

```
print(myset)
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assignement\Assignment 1\P9.py =====
{'yellow', 'orange', 'black', 'blue'}
```

Program : 10

```
for i in range(0,5):
```

```
    for j in range(0,i+1):
```

```
        print(j+1,end="")
```

```
    print(end="\n")
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assignement\Assignment 1\P10.py =====
1
12
123
1234
12345
```

Program : 11

```
n = int(input("Enter Number = "))
sum = 0
for i in range(n):
    sum += i+1
print(sum)
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assigement\Assignment 1\P11.py =====
Enter Number = 5
15
```

Program : 12

```
l = [12, 100, 53, 14, 28, 7, 25, 870, 30, 28, 53, 12, 10]
for i in l:
    if i>150:
        break
    if i%5==0:
        print(i)
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assigement\Assignment 1\P12.py =====
100
25
```

Program : 13

```
l = [10,20,30,40]
for i in range(len(l)):
    l.insert(i,max(l[i:len(l)]))
    l.pop()
print(l)
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assigement\Assignment 1\P13.py =====
[40, 30, 20, 10]
```

Program : 14

```
for i in range(2,50):  
    rs = False  
    for j in range(2,50):  
        if j == i:  
            break  
        if i%j == 0:  
            rs = True  
    if not rs:  
        print(i)
```

Output

```
===== RESTART: D:\MSC.ICT\Python\Practical Assignment\Assignment 1\P14.py =====  
2  
3  
5  
7  
11  
13  
17  
19  
23  
29  
31  
37  
41  
43  
47
```