

## Assignment-8

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### 1. Program to print first 10 natural numbers using while loop

```
i=1  
while i<=10:  
    print(i)  
    i=i+1
```

#### **Output:-**

```
1  
2  
3  
4  
5  
6  
7  
8  
9  
10
```

## 2. Program to sort array elements in the ascending order

```
arr = [5, 2, 8, 7, 1];  
temp = 0;  
print("Elements of original array: "); for i in  
range(0, len(arr)):  
    print(arr[i], end=" "); for i in  
range(0, len(arr)):  
    for j in range(i+1, len(arr)): if(arr[i] >  
        arr[j]):  
        temp = arr[i];  
        arr[i] = arr[j];  
        arr[j] = temp;  
  
print();  
print("Elements of array sorted in ascending order: "); for i in range(0,  
len(arr)):  
    print(arr[i], end=" ");
```

### **Output:-**

Elements of original array:

5 2 8 7 1

Elements of array sorted in ascending order: 1 2 5 7 8

**3. Program to find the maximum and minimum numbers in a list of 10 elements and to also find the index position of them**

```
def minimum(a, n): print("Minimum
: ", min(a))
print("Maximum : ", max(a)) minpos
= a.index(min(a)) maxpos =
a.index(max(a))
print("The minimum is at position", minpos + 1) print("The maximum is
at position", maxpos + 1)
a = [3, 4, 1, 3, 4, 5, 8, 45, 60, 10]
minimum(a, len(a))
```

**Output:-**

Minimum : 1  
Maximum : 60  
The minimum is at position 3 The  
maximum is at position 9

**4. Program to find the intersection of two elements from two lists**

```
def intersection(lst1, lst2):
    lst3 = [value for value in lst1 if value in lst2] return lst3
lst1 = [4, 9, 1, 17, 11, 26, 28, 54, 69]
lst2 = [9, 9, 74, 21, 45, 11, 63, 28, 26]
print("intersected elements :", intersection(lst1, lst2))
```

**Output:-**

intersected elements : [9, 11, 26, 28]

- 5. Program to fetch only email ID from text file which include following**  
**name**  
**roll number mobile**  
**number Email id**

```
import re
s = "Name:A.Rajyasri Roll no.:321910302053 Mobile_no:9381292924
Email_ID:ambatirajyasri123@gmail.com" list = re.findall("\S+@\S+",s)
print(list)
```

**Output:-**

```
['Email_ID: ambatirajyasri123@gmail.com']
```