

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:K.Kalyani Roll no.:321910302051
```

```
Mobile_no.:9900925574 Email_ID:kalyanik4141@gmail.com"
```

```
list = re.findall("\S+@\S+",s)
```

```
print(list)
```

Output:-

```
['Email_ID:kalyanik4141@gmail.com']
```