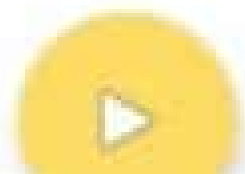# Python Assignment Day - 8

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```
1  #Program to print first 10 natural
   numbers using while loop
2  num = int(input("Enter a number:"))
3  i=1
4  while i<=num:
5      print("i=",i)
6      i=i+1
```

```
Enter a number:10
i= 1
i= 2
i= 3
i= 4
i= 5
i= 6
i= 7
i= 8
i= 9
i= 10

[Program finished]
```

```python
#Program to sort an array element is ascending order
arr = [9, 7, 5, 3, 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=" ")
```

```
Elements of original array:
9 7 5 3 1
Elements of array sorted in ascending order:
1 3 5 7 9
[Program finished]
```

```python
#Program to sort array elements in
descending order
arr = [5, 2, 8, 7, 1];
temp = 0;
print("Elements of original array: ")
for i in range(0, len(arr)):
    print(arr[i])
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
descending order: ")
for i in range(0, len(arr)):
    print(arr[i])
```

```
Elements of original array:
5
2
8
7
1

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

[Program finished]
```

```python
#Program to find maximum and minimum
numbers
list = [10, 1, 2, 20, 3, 20,76,14,50,20]
min = list.index (min(list))
max = list.index (max(list))
print ("position of minimum element: ",
min)
print ("position of maximum element: ",
max)
```

```
position of minimum element:  1
position of maximum element:  6

[Program finished]
```

```python
#program to find intersection of elements from two lists
list1 = [1, 5, 4]
list2 = [1, 2, 5]
intersection_set = set.intersection(set(list1), set(list2))
intersection_list = list(intersection_set)
print(intersection_list)
```

[1, 5]

[Program finished]

```python
1  #Program to print email
2  def personal_details():
3      name="sandhya"
4      mobile_number=8431805553
5      roll_number=321910302023
6      email_id="sp4444808@gmail.com"
7      print("the email of the person is:",
   email_id)
8  personal_details()
```

```
the email of the person is: sp4444808@gmail.com

[Program finished]
```