

```
1 #print first 10 natural numbers using while loop in  
python  
2 i = 1  
3 while( i<=10 ) :  
4     print( i )  
5     i += 1
```

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

```
[Program finished]
```

```
1 #Write a python program to find the intersection of  
  elements from two list  
2 list1= [ 1,5,9,8]  
3 list2= [ 5,4,3,1]  
4 intersection=set.intersection( set( list1 ) ,  
  set( list2 ) )  
5 intersection_list=list( intersection )  
6 print(intersection_list)
```

1, 5]

Program finished]

# Write a python program to find the maximum and minimum number in a list of 10 elements and also find the index position of the following numbers

```
def maxminposition( A, n ) :  
    minposition = A.index( min( A ) )  
    maxposition = A.index( max( A ) )  
    print ( " The maximum is at position: : " ,  
maxposition + 1 )  
    print ( [ " The minimum is at position: : " ,  
minposition + 1 ] )  
A=list( )  
n=int( input( " Enter the size of the List : : " ) )  
print( " Enter the Element : : " )  
for i in range( int( n ) ) :  
    k=int( input( " " ) )  
    A.append( k )  
maxminposition( A, n )
```

```
Enter the size of the List ::10
Enter the Element ::
33
44
5
2
5
6
8
3
2
1
The maximum is at position:: 2
The minimum is at position:: 10

[Program finished]
```

# Write a python program to sort array element in the ascending/descending order

```
arr = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

```
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( "Elements of array sorted in descending order" )
```

```
for i in range( 0, len( arr ) ):
```

```
    print( arr[ i ], end=" " )
```

```
Elements of original array:
12345678910Elements of array soted in decending order
10
9
8
7
6
5
4
3
2
1
[Program finished]
```