

Solutions,15jan,2022

1 write a python program to print prime numbers between 100 and 200?

```
>>> lower_value = int(input("Please, Enter the Lowest Range Value: "))
>>> upper_value = int(input("Please, Enter the Upper Range Value: "))
```

```
>>> print("The Prime Numbers in the range are: ")
>> for number in range(lower_value, upper_value + 1):
>>>     if number > 1:
>>>         for i in range(2, number):
>>>             if (number % i) == 0:
>>>                 break
>>>         else:
>>>             print(number)
```

2 write a short function to sort the elements in a list?

```
numbers = [1, 3, 4,2,8]
numbers.sort()
print(numbers)
```

3 write a sorting function without using the list.sort function (descending order)?

```
numbers = [1, 3, 4,2,8]
numbers.sort(reverse=True)
print(numbers)
```

4 write a python program to print a list in reverse ?

```
>>> mylist
[1, 2, 3, 4, 5]
```

```
>>> mylist[::-1]
[5, 4, 3, 2, 1]
```

5 write a python program to print set of duplicates in a list?

```
>>> #function
>>> def duplicate(li):
>>>     n=len(li)
>>>     dup=[]
>>>     for i in range(n):
>>>         k = i + 1
>>>         for j in range(k,n):
>>>             if li[i] == li[j] and li[i] not in dup:
>>>                 dup.append(li[i])
>>>     return dup
```

```
#test
li=[ 10, 20, 30, -10, -20, 10, 80, -10, -20, 30]
print("Duplicate integeres: ",duplicate(li))
```

6.write a program to print today's date ?

```
>>> # importing date class from datetime module

>>> from datetime import date

>>> # creating the date object of today's date

>>> todays_date = date.today()

>>> # printing todays date

>>> print("Current date: ", todays_date)
>>> #fetching the current year, month and day of today

>>> print("Current year:", todays_date.year)

>>> print("Current month:", todays_date.month)

>>> print("Current day:", todays_date.day)
```

7.write a Python program to create a list of tuples and printing there vibes in output?

```
>>> list1 = [9, 8, 5, 6]
>>> res = [(val, pow(val, 3)) for val in list1]
>>> print(res)
```