1st Question

```python
In [2]: lst=[]
        print('Enter 5 elements: ')
        for i in range(5):
            ele=int(input())
            lst.append(ele)
        print(lst)
```

```
Enter 5 elements:
34
980
6
0
45
[34, 980, 6, 0, 45]
```

```python
In [3]:  # a)Total no of items in the list
        print(len(lst))
```

```
5
```

```python
In [4]: # b)Fourth item in the list
        print(lst[3])
```

```
0
```

```python
In [5]:  # c)Last three items in the list
        print(lst[-3:])
```

```
[6, 0, 45]
```

```python
In [6]: # d)All the items in the list expect first two values
        print(lst[2:])
```

```
[6, 0, 45]
```

```python
In [7]: # e)list in reverse order
        print(lst[::-1])
```

```
[45, 0, 6, 980, 34]
```

```python
In [8]: # f)largest and smallest values in list
        print(min(lst),max(lst))
```

```
0 980
```

```python
In [9]: # g)sum of all values in list
        print(sum(lst))
```

```
1065
```

```python
In [10]: # h)contains zero or not
        if 0 in lst:
            print('Index of value 0 is: ',end=' ')
            for i in range(len(lst)):
                if(lst[i]==0):
                    print(i)
                    break
        else:
            print('There are no zero in the list')
```

```
Index of value 0 is:  3
```

```
In [12]:  lst.sort() # i)Sorting of list
          print(lst)

          [0, 6, 34, 45, 980]

In [13]:  lst.pop(0) # j)Deleting first item from the list
          print(lst)

          [6, 34, 45, 980]

In [14]:  lst[-2]=9876 # k)changing the last second item of the list
          print(lst)

          [6, 34, 9876, 980]

In [15]:  lst.append(-500) # l)Appending a value to the list
          print(lst)

          [6, 34, 9876, 980, -500]
```

2nd Question

```
In [16]:  a=[]
          y=int(input('Enter the no of elements :'))
          for i in range(y):
              c=int(input())
              a.append(c)
          print('Smallest value: ',end=' ')
          print(min(a))
          for i in range(y):
              if a[i]==min(a):
                  print('Index of smallest value : ',end=' ')
                  print(i)
                  break

          Enter the no of elements :5
          34
          54
          4
          6
          3
          Smallest value:  3
          Index of smallest value :  4
```

3rd Question

```
In [17]:  l=[]
          strg=input('Enter a string of lower case letters: ')
          for i in range(97,123):
              l.append(strg.count(chr(i)))
          print(l)

          Enter a string of lower case letters: welcome to python programming
          [1, 0, 1, 0, 2, 0, 2, 1, 1, 0, 0, 1, 3, 2, 4, 2, 0, 2, 0, 2, 0, 0, 1, 0, 1, 0]
```

4th Question

```
In [18]:  dict={'abc':7,'def':11,'ghi':13,'jkl':17,'mno':19} # a) Printing the value of key 'def'
          k=dict['def']
          print(k)
```

```
                  11
```

In [19]:
```python
print(dict.keys()) # b) using keys() method to print all keys
```

```
dict_keys(['abc', 'def', 'ghi', 'jkl', 'mno'])
```

In [20]:
```python
for key,value in dict.items(): # c) Printing all the keys assosiated with their values
    print(key,':',value)
```

```
abc : 7
def : 11
ghi : 13
jkl : 17
mno : 19
```

In [23]:
```python
if 'pqr' in dict.keys():                        # d)cheaking if the dictionary contains
    print('dictonary contains pqr key')
else:
    print('dictonary does not contains pqr key')
```

```
dictonary does not contains pqr key
```

In [24]:
```python
dict['abc']=23          # e) changing the value of key "abc" and printing all the values
print(dict.values())
```

```
dict_values([23, 11, 13, 17, 19])
```

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