

Q1

```

In [1]: a=input('enter atleast five integers:[]')
j=[int(x) for x in a]
print(j)
print(j[3])
print(j[-3:])
print(j[3:])
print(j[::-1])
print(max(j))
print(min(j))
print(sum(j))

for i in j:
    if i==0 in j:
        print(j.index(0))
    else:

        print('there are no zeros')

j.sort()
print(j)
pop_item=j.pop(0)
print(j)
list1=j
list2=[9,8,7,6]
list1[-1:]=list2
print(list1)
w=[-500]
print(list1+w)

enter atleast five integers:[]2340678554
[2, 3, 4, 0, 6, 7, 8, 5, 5, 4]
0
[5, 5, 4]
[0, 6, 7, 8, 5, 5, 4]
[4, 5, 5, 8, 7, 6, 0, 4, 3, 2]
8
0
44
there are no zeros
there are no zeros
there are no zeros
3
there are no zeros
there are no zeros
there are no zeros
there are no zeros
there are no zeros
there are no zeros
[0, 2, 3, 4, 4, 5, 5, 6, 7, 8]
[2, 3, 4, 4, 5, 5, 6, 7, 8]
[2, 3, 4, 4, 5, 5, 6, 7, 9, 8, 7, 6]
[2, 3, 4, 4, 5, 5, 6, 7, 9, 8, 7, 6, -500]

```

Q2

```
In [2]: m=input('enter a list numbersrs:[]')
s=[int(x) for x in m]
S1=min(s)
S2=s[5]
sum=(S1+S2)
print(sum)
```

```
enter a list numbersrs:[]34987547392
7
```

Q3

```
In [3]: S=input('string ')
def prCharWithFreq(S):

    d = {}
    for i in string :
        if i in d:
            d[i] += 1
        else:
            d[i] = 1

    for i in string:

        if d[i] != 0:
            print("{}{}".format(i,d[i]), end = " ")
            d[i] = 0
if __name__ == "__main__" :

    string = "thhhe kkiinggeeoousss";
    prCharWithFreq(str);
```

```
string l
t1 h3 e3 1 k2 i2 n1 g2 o2 u2 s3
```

Q4

a

```
In [4]: dict_n={'abc':7,'def':11,'hij':13,'klm':17,'mno':19}
print(dict_n)
```

```
{'abc': 7, 'def': 11, 'hij': 13, 'klm': 17, 'mno': 19}
```

b

```
In [5]: print(dict_n['abc'])
```

7

c

```
In [6]: print(dict_n.keys())
```

```
dict_keys(['abc', 'def', 'hij', 'klm', 'mno'])
```

d

```
In [7]: def checkKey(dic, key):

        if key in dic:
            print("Present, ", end = " ")
            print("value =", dic[key])
        else:
            print("Not present")

        # Driver Code
        dic={ 'abc':7, 'def':11, 'hij':13, 'klm':17, 'mno':19}
        key = 'jkl'
        checkKey(dic, key)

        key = 'hij'
        checkKey(dic, key)
```

```
Not present
Present, value = 13
```

e

```
In [8]: dict_n={'abc':7,'def':11,'hij':13,'klm':17,'mno':19}
        dict_n.update({'abc':'23'})
        print(dict_n)
```

```
{'abc': '23', 'def': 11, 'hij': 13, 'klm': 17, 'mno': 19}
```

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In [ ]:
```