

### List Q&A

**Q1.** ISBN-10 identifiers are ten digits long. The first nine characters are digits 0-9. The last digit can be 0-9 or X, to indicate a value of 10. An ISBN-10 number is valid if the sum of the digits multiplied by their position modulo 11 equals zero.

### For example:

```
ISBN: 1112223339 position: 12345678910 This is a valid ISBN, because:  (1*1 + 1*2 + 1*3 + 2*4 + 2*5 + 2*6 + 3*7 + 3*8 + 3*9 + 9*10) \% 11 = 0
```

#### **Examples**

1112223339 --> true 111222333 --> false

```
In [ ]: x = input('>>>')
total = 0
for i in range(len(x)):
    total = total + (int(x[i])*(i+1))
print(total%11)
```

**Q2.** Write python Program to find sum of list.

Example:

```
input: x = [2,3,4,5,6,7,8,5,4]
```

```
output:
44
```

Q3. Write python Program to find index wise sum of two list.

# Example:

```
output: [7, 7, 7, 8, 10, 12, 14, 11, 12]
```

```
In [ ]: x = [2,3,4,5,6,7,8,5,4]
y = [5,4,3,3,4,5,6,6,8]

num = []
for i,j in zip(x,y):
    num.append(i+j)
num
```

**Q4.** Write python Program to find sum of all number from list.

Example:

```
input:

x = [2,3,4,'23','A',5,6,'B',7,'6',8,'9',5,4]

output:

82
```

**Q5** Write Python Program to find maximum,minimum values from list.

Example:

```
Input:

num = [2,3,4,5,6,76,7,4]
```

```
Output:

minimum: 2
maximum: 76
```

```
In []: num = [2,3,4,5,6,76,7,4]
    maximum = num[0]
    minimum = num[0]
    for x in num:
        if x>maximum:
            maximum = x

    for i in num:
        if i<minimum:
            minimum = i
    print('minimum:',minimum)
    print('maximum:',maximum)</pre>
```

**Q6** Write Python Program to find maximum,minimum values from list.

Example:

```
Input:
num = [2,3,4,'A',5,6,'B',76,'Py',7,4,45j]
```

```
Output:

minimum: 2
maximum: 76
```

```
In []: num = [2,3,4,'A',5,6,'B',76,'Py',7,4,45j]
    maximum = num[0]
    minimum = num[0]
    for x in num:
        if type(x)==int and x>maximum:
            maximum = x

    for i in num:
        if type(i)==int and i<minimum:
            minimum = i
    print('minimum:',minimum)
    print('maximum:',maximum)</pre>
```

**Q7** Write Python Program to find Sort values from list.

### Example:

```
Input:

num = [2,3,4,'A',5,6,'B',76,'Py',7,4,45j]
```

```
Output: [2, 3, 4, 5, 6, 76, 7, 4]
```

**Q8.** Write the python program to find duplicate values from list.

## Example

Input:

```
num = [3,4,5,6,7,6,54,'Hello',45j,4.3,'Hello','3',7]
```

### **Output:**

```
[3,6,7,'Hello']
```

```
In [ ]:
```