Week 3 Python Answers

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Q41) Write a python code that takes two lists from the user and prints True
if they have at least one common member.

```python
[ ]  # Python Pratise (Question 41)
     y = []
     b = []
     x = int(input("How many elements do you want to enter: "))
     for z in range(0,x):
       xyz = int(input())
       y.append(xyz)
     j = int(input("How many elements do you want to enter for the second List: "))
     for f in range(0,j):
       xy = int(input())
       b.append(xy)
     for a in y:
       if a in b:
        print(True)
        break
     else:
       print("False")
```

```
How many elements do you want to enter: 3
1
2
3
How many elements do you want to enter for the second List: 3
3
2
4
True
```

Q42) Write a Python program to generate and print a list of first and last
5 elements where the values are square of numbers between 1 and 30
(both included).

```
[6]  # Python Pratise (Question 42)
     l = []
     for i in range(1,31):
       l.append(i**2)
     print(l[:5])
     print(l[-5:])
```

```
[1, 4, 9, 16, 25]
[676, 729, 784, 841, 900]
```

Q43) Write a Python program to find the second smallest number in a list.

```
[ ]  # Python Pratise (Question 43)
     x = [3,4,8,0,5,7,1]
     x.sort(reverse = True)
     print(x)
     print(x[-2])
```

```
[8, 7, 5, 4, 3, 1, 0]
1
```

Q44) Write a Python program to find the second largest number in a list.

```
# Python Pratise (Question 44)
x = [3,4,8,0,5,7,1]
x.sort()
print(x)
print(x[-2])
```

```
[0, 1, 3, 4, 5, 7, 8]
7
```

Q45) Write a Python program to count the number of elements in a list within a specified range given by the user.

```
# Python Pratise (Question 45)
y = [0,3,6,9,12,15,18,21,24,27]
x = int(input("Write the starting range: "))
z = int(input("Write the Ending range"))
for i in y:
    if x<i<z:
        print(f)
```

```
Write the starting range: 3
Write the Ending range24
6
```

Q46) Write a Python program to check whether a list contains a sublist specified by the user.

```
# Python Pratise (Question 46)
sl = [1,3,5]
ul = []
sub = []
x = int(input("How many elements do you want to enter: "))
for z in range(0,x):
    xyz = int(input())
    ul.append(xyz)
for i in range(len(sl)):
    if sl[i] in ul:
        sub.append(sl[i])
        print("It has a sublist: ", sub)
```

```
How many elements do you want to enter: 4
1
9
3
2
It has a sublist:  [1]
It has a sublist:  [1, 3]
```

Q48) Write a Python program to convert a list of multiple integers into a single integer.

```
[24]  # Python Pratise (Question 48)
      x = ['11','44','77']
      y = ''
      print(y.join(x))
```

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Q49) Write a Python program to get the difference between the two lists.

```
# Python Pratise (Question 49)
x = [9,1,6,3,5]
z = [1,8,9,3]
for i in range(len(x)):
  if (x[i] not in z):
    print(x[i])
```

6
5

Q50) Write a Python program to get the difference between the two lists.

```
# Python Pratise (Question 50)
x = [2,9,7,0,8]
y = [2,3,6,0,9]
for i in range(len(x)):
  if (x[i] not in y):
    print(x[i])
for z in range(len(y)):
  if (y[z] not in x):
    print(y[z])
```

```
7
8
3
6
```

Q51) Write a Python program to find the list in a list of lists whose sum of elements is the highest.

```
[64]  # Python Pratise (Question 51)
      x =[[9,0,3], [1,4,6], [10,8,5], [2,1,13]]
      print(max(x))
```

```
[10, 8, 5]
```

Q52) Write a Python program to insert an element at a specified position into a given list.

```
[57]  # Python Pratise (Question 52)
      x = [9,8,1,2,3,7,4,55,12,0]
      y = int(input("Write the index place where you want to add: "))
      z = int(input("Write the number you want to add: "))
      x.insert(y,z)
      print(x)

 ┌→   Write the index place where you want to add: 5
      Write the number you want to add: 99
      [9, 8, 1, 2, 3, 99, 7, 4, 55, 12, 0]
```