

2nd Assignment:

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Lottery System In Python

Write a Python program to:

1. Generate a list of 15 random numbers
2. Divide the list into 3 separate lists, each containing 5 elements.
3. Calculate the sum of elements in each of the three lists.
4. Display which list has the greatest sum along with its sum.

Code:

```
import random

main_list = []

for i in range(1, 16):
    main_list.append(random.randint(1, 100))

list_1 = main_list[0:5]
list_2 = main_list[5:10]
list_3 = main_list[10:15]

list_1_sum = sum(list_1)
list_2_sum = sum(list_2)
list_3_sum = sum(list_3)

print("Main list =", main_list)
print("List 1 =", list_1, "Sum =", list_1_sum)
print("List 2 =", list_2, "Sum =", list_2_sum)
print("List 3 =", list_3, "Sum =", list_3_sum)

highest = max(list_1_sum, list_2_sum, list_3_sum)

print("Highest =", highest)

if (highest == list_1_sum):
    print("List 1 has the highest sum")
elif (highest == list_2_sum):
    print("List 2 has the highest sum")
else:
    print("List 3 has the highest sum")
```

OUTPUT:

```
Main list = [94, 60, 90, 89, 35, 56, 83, 70, 96, 32, 50, 82, 33, 46, 79]
List 1 = [94, 60, 90, 89, 35] Sum = 368
List 2 = [56, 83, 70, 96, 32] Sum = 337
List 3 = [50, 82, 33, 46, 79] Sum = 290
Highest = 368
List 1 has the highest sum
```

GitHub Link:

<https://github.com/SushanThakur/2nd-sem-assignment.git>