**Assignment -1**

Python Programming

| | |
|---|---|
| Assignment Date | 29 September 2022 |
| Student Name | Mr.Faizal A |
| Team Id | PNT2022TMID44153 |
| Student Roll Number | 724019104004 |
| Maximum Marks | 2 Marks |

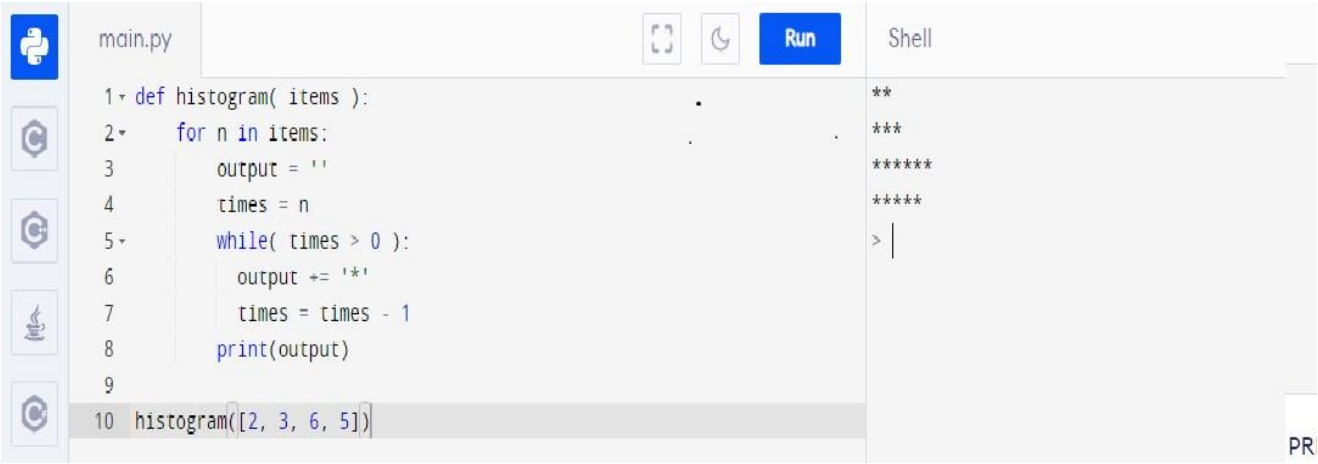
**Question-1:**

Write a Python program to create a histogram from a given list of integers

**Solution:**

```
def histogram(items):
    for n in items:
        output = ''
        times = n
        while( times > 0 ):
            output += '*'
            times = times - 1
        print(output)

histogram([2, 3, 6, 5])
```




**Question-2:**

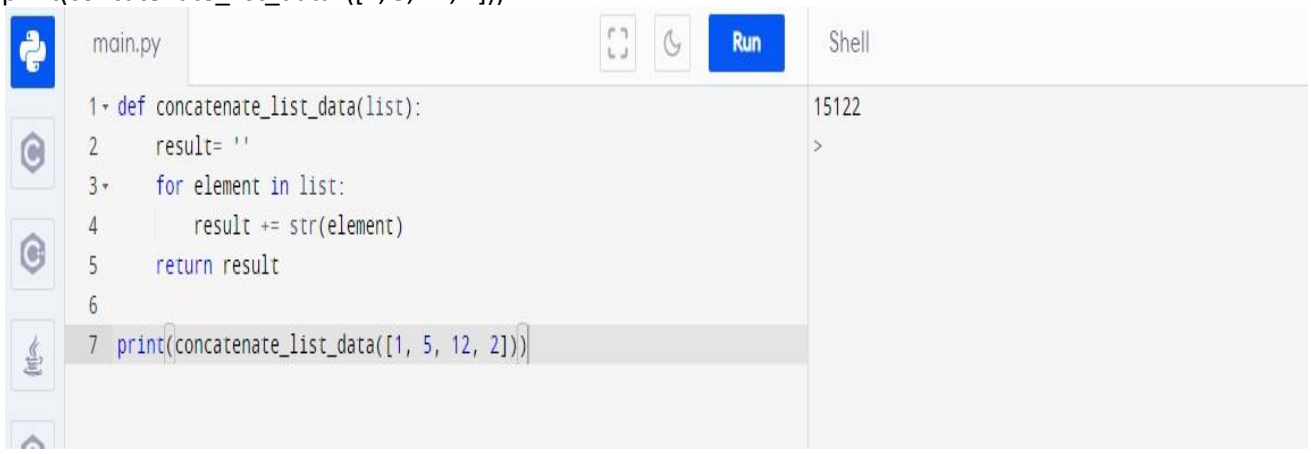
Write a Python program to concatenate all elements in a list into a string and return it.

**Solution:**

```
def concatenate_list_data(list):
result= ''
```

```
    for element in list:
        result += str(element)
    return result

print(concatenate_list_data  ([1, 5, 12, 2]))
```



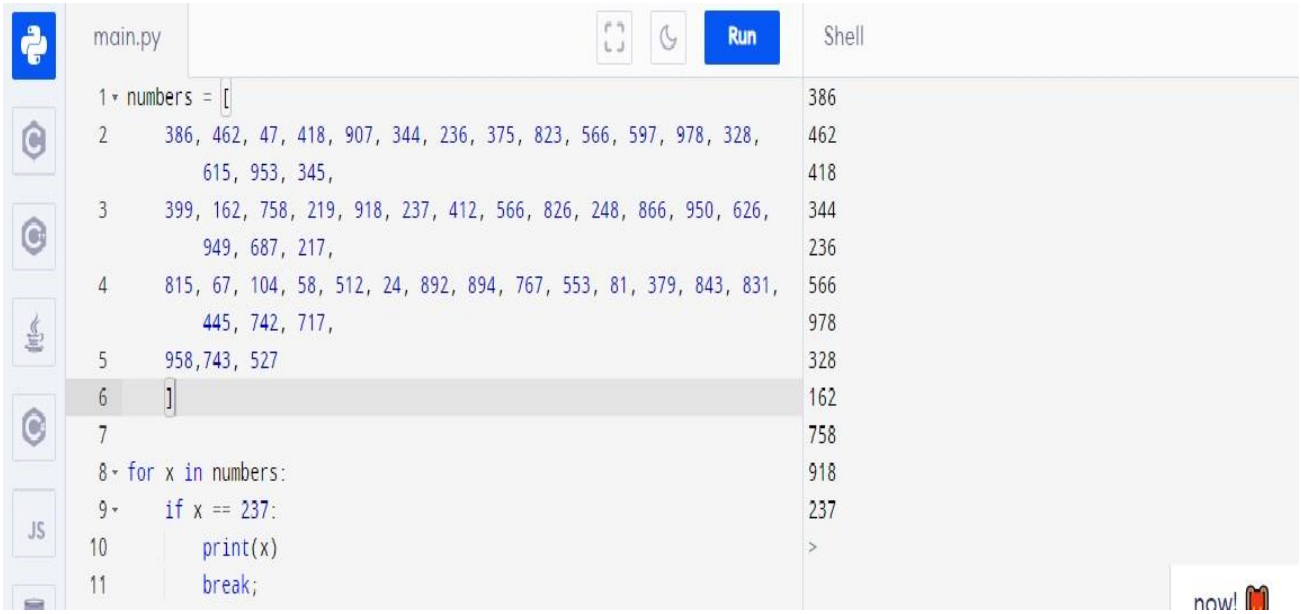

**Question-3:**

Write a Python program to print all even numbers from a given numbers list in the same order and stop the printing if any numbers that come after 237 in the sequence

**Solution:**

```
numbers = [
    386, 462, 47, 418, 907, 344, 236, 375, 823, 566, 597, 978, 328,
615, 953, 345,
    399, 162, 758, 219, 918, 237, 412, 566, 826, 248, 866, 950, 626,
949, 687, 217,
    815, 67, 104, 58, 512, 24, 892, 894, 767, 553, 81, 379, 843,
831, 445, 742, 717,
    958,743, 527
    ]

for x in numbers:
    if x == 237:
        print(x)
        break;
    elif x % 2 == 0:
        print(x)
```




**Question-4:**

Write a Python program to print out a set containing all the colors from color_list_1 which are not present in color_list_2

**Solution:**

```
    color_list_1 = set(["White", "Black", "Red"])
color_list_2 = set(["Red", "Green"])
print("Original set elements:")
print(color_list_1)
print(color_list_2)
print("\nDifferenct of color_list_1 and color_list_2:")
print(color_list_1.difference(color_list_2))
print("\nDifferenct of color_list_2 and color_list_1:")
print(color_list_2.difference(color_list_1))
```


**Question-5:**

Write a Python program that will accept the base and height of a triangle and compute the area

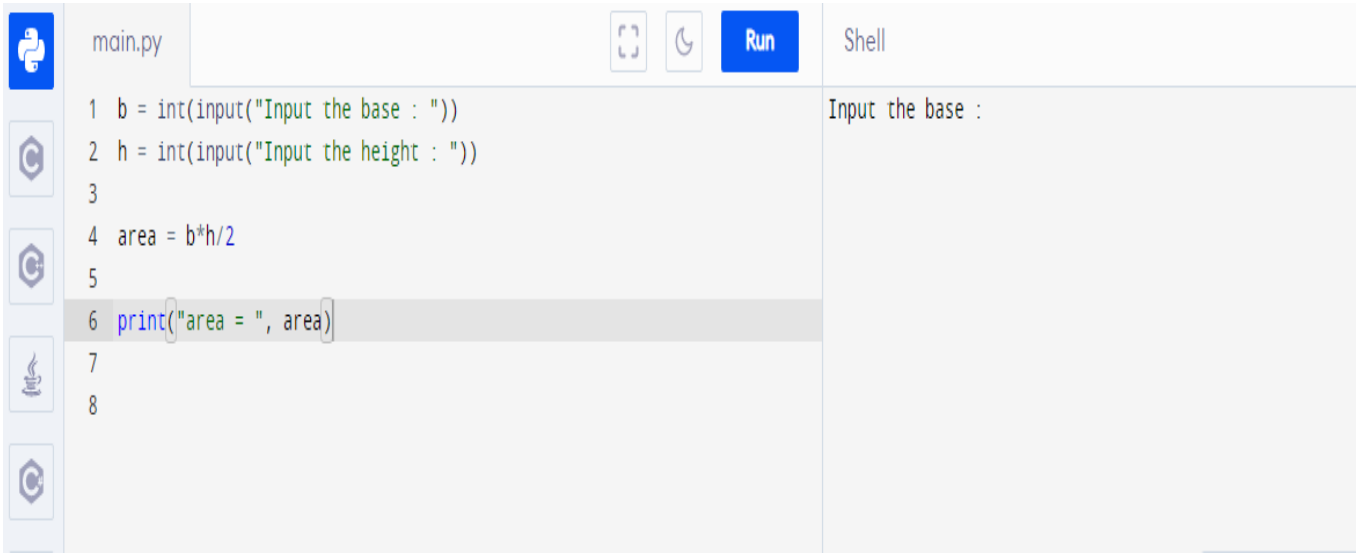
**Solution:**

b (= int(input "Input the base : "))

h = int(input("Input the height : "))

area = b*h/2

print("area = ", area)


main.py
Run
Shell
1 b = int(input("Input the base : "))
2 h = int(input("Input the height : "))
3
4 area = b*h/2
5
6 print("area = ", area)
7
8
Input the base :