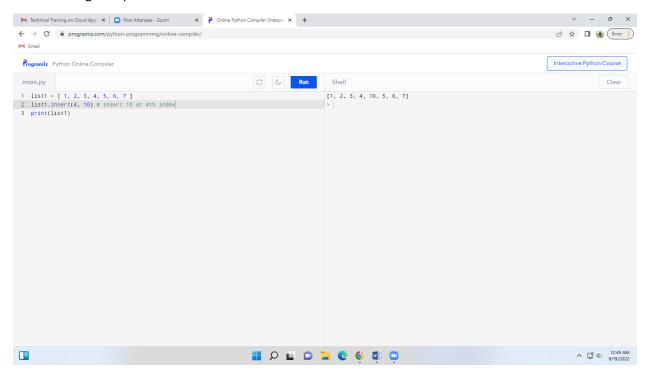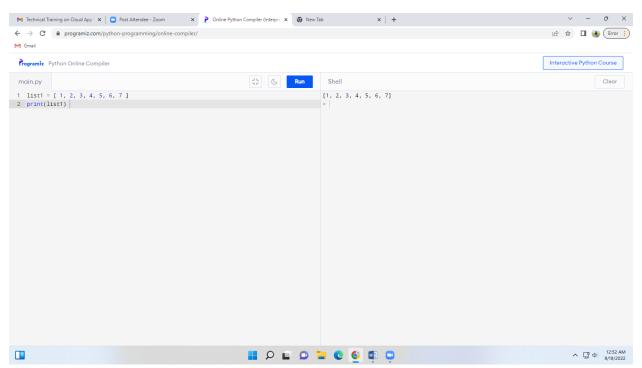Module 3 :-

Consider the list
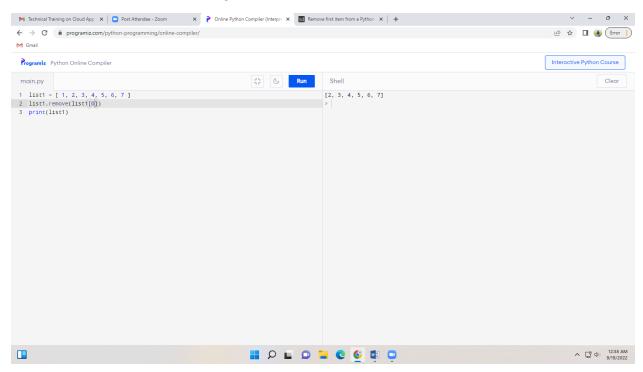
1.Insert integer at position
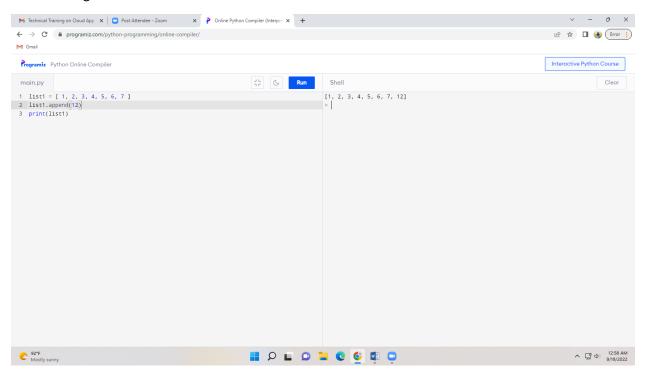

2.Print the list

3.Delete the first occurrence of integer


```python
1  list1 = [ 1, 2, 3, 4, 5, 6, 7 ]
2  list1.remove(list1[0])
3  print(list1)
```

Shell
```
[2, 3, 4, 5, 6, 7]
>
```

4.Insert integer at the end of the list


```python
1  list1 = [ 1, 2, 3, 4, 5, 6, 7 ]
2  list1.append(12)
3  print(list1)
```

Shell
```
[1, 2, 3, 4, 5, 6, 7, 12]
>
```

5.Sort the list

```
1  list1 = [ 1, 2, 3,8, 4, 5, 6, 7 ]
2  list1.sort()
3  print(list1)
```

Shell output:
```
[1, 2, 3, 4, 5, 6, 7, 8]
>
```

6.pop the last element from the list


```
1  list1 = [ 1, 2, 3,8, 4, 5, 6, 7 ]
2  list1.pop(7)
3  print(list1)
```

Shell output:
```
[1, 2, 3, 8, 4, 5, 6]
>
```

7.Reverse the list

Programiz Python Online Compiler

Interactive Python Course

main.py   ⟲ ☾ **Run**   Shell   Clear

```
1  list1 = [ 1, 2, 3,8, 4, 5, 6, 7 ]
2  list1.reverse()
3  print(list1)
```

```
[7, 6, 5, 4, 8, 3, 2, 1]
> |
```

8.Initialize your list and read in the value of followed by lines of commands where each command will be of the types listed above. Iterate through each command in order and perform the corresponding operation on your list.

```python
list = [1,3,1,5,2,4,1]
#To insert
list.insert(5,6)
print("The inserted list:",list)
#To remove first occurence
list.remove(1)
print("The first occurence removed list:",list)
#To insert integer at the end
list.append(7)
print("The appended list:",list)
#To sort the list
list.sort()
print("The sorted list:",list)
#To pop the last element
list.pop()
print("The popped list:",list)
#To reverse
list.reverse()
print("The reversed list:",list)
```
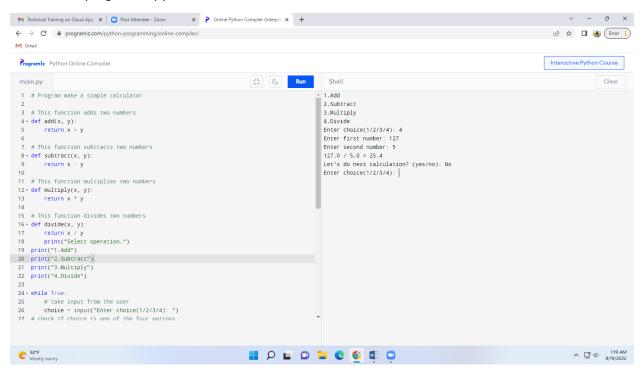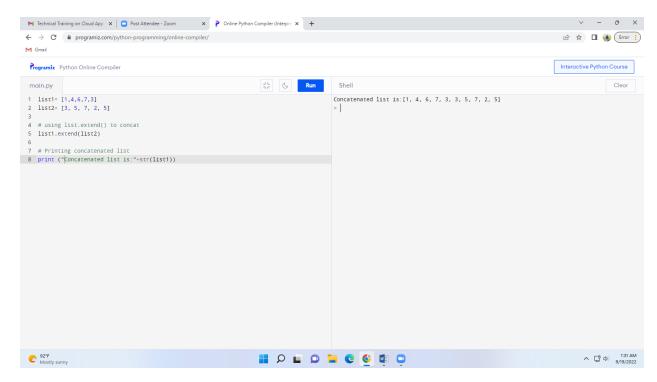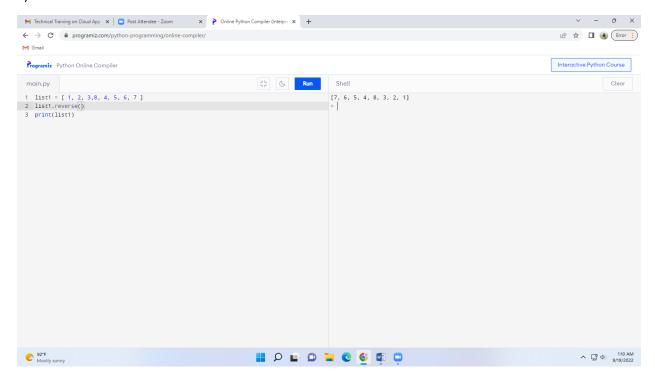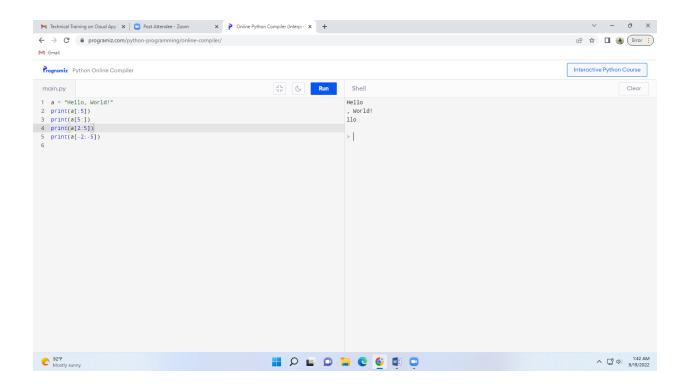
9.Calculator program in python

10. i)Concatenate

ii)Reverse

iii)Slicing

```
1  a = "Hello, World!"
2  print(a[:5])
3  print(a[5:])
4  print(a[2:5])
5  print(a[-2:-5])
6
```

Shell output:
```
Hello
, World!
llo

>
```

11.Why python is a popular programming language?

- Easy to learn

- It has an active, supportive community

- It is flexible

- Offers versatile web development solutions

- It is well suited to Data Science and Analytics

- Efficient, fast and reliable

- Widely used with IoT technology

12. What are the frameworks that can be used with python?

- Flask
- Django
- Web2py
- Bottle
- CherryPy
- Dash
- Falcon

13. Full form of WSGI?

Web Server Gateway Interface(WSGI)