```
Program started.
Task 1 started.
Task 2 started.
Task 1 completed.
Task 2 completed.
Program completed.
```

```
Program started.
Task 1 started.
Task 1 completed.
Task 2 started.
Task 2 completed.
Program completed.
```

```
[ 2  2  3 10 10 10]
```

```
[1 3 4]
```

```
Cut Ticket  : 1
Show Chair  : 1
Cut Ticket  : 2
Show Chair  : 2
Cut Ticket  : 3
Show Chair  : 3
Cut Ticket  : 4
Show Chair  : 4
Cut Ticket  : 5
Show Chair  : 5
```

```
STACK OPERATIONS
1. Push Element
2. Pop Element
3. Peep Element
4. Search an Element
5. Exit
Enter Your Choice: 1
Enter Element: 10
Stack = [10]
STACK OPERATIONS
1. Push Element
2. Pop Element
3. Peep Element
4. Search an Element
5. Exit
Enter Your Choice: 1
Enter Element: 20
Stack = [10, 20]
STACK OPERATIONS
1. Push Element
2. Pop Element
3. Peep Element
4. Search an Element
5. Exit
Enter Your Choice: 2
Popped Element: 20
Stack = [10]
STACK OPERATIONS
1. Push Element
2. Pop Element
3. Peep Element
4. Search an Element
5. Exit
Enter Your Choice: 5
```

```
QUEUE OPERATIONS
1. Add Element
2. Delete Element
3. Search Element
4. Exit
Enter your choice: 1
Enter element to add: 10
Element 10 added to the queue.
Current queue: ['10']

QUEUE OPERATIONS
1. Add Element
2. Delete Element
3. Search Element
4. Exit
Enter your choice: 20
Invalid choice! Please enter a valid option between 1 and 4.
Current queue: ['10']

QUEUE OPERATIONS
1. Add Element
2. Delete Element
3. Search Element
4. Exit
Enter your choice: 2
Deleted element: 10
Queue is empty.

QUEUE OPERATIONS
1. Add Element
2. Delete Element
3. Search Element
4. Exit
Enter your choice: 4
Exiting program...
```

```
First polynomial is:
5 + 10x^2 + 6x^3
Second polynomial is:
1 + 2x^1 + 4x^2
Sum of polynomials is:
6 + 2x^1 + 14x^2 + 6x^3
```

```
Enter radius of the circle: 5
Area of Circle: 78.54
Enter length of the rectangle: 15
Enter width of the rectangle: 10
Area of Rectangle: 150.00
Enter base of the triangle: 5
Enter height of the triangle: 7
Area of Triangle: 17.50
```

```
Existing list: ['Hindustan', 'Bharat', 'India']

Linked List Operations
1. Add Element
2. Remove Element
3. Replace Element
4. Search Element
5. Exit
Enter Your Choice: 1
Enter Element: South Africa
Enter Position: 0
List: ['South Africa', 'Hindustan', 'Bharat', 'India']

Linked List Operations
1. Add Element
2. Remove Element
3. Replace Element
4. Search Element
5. Exit
Enter Your Choice: 2
Enter Element: Bharat
List: ['South Africa', 'Hindustan', 'India']

Linked List Operations
1. Add Element
2. Remove Element
3. Replace Element
4. Search Element
5. Exit
Enter Your Choice: 3
Enter New Element: New Zealand
Enter Position: 1
List: ['South Africa', 'New Zealand', 'India']

Linked List Operations
1. Add Element
2. Remove Element
3. Replace Element
4. Search Element
5. Exit
Enter Your Choice: 5
Exiting program...
```

```
Enter the size of the queue: 4

1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 1
Enter value to enqueue: 10

1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 1
Enter value to enqueue: 20

1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 2

1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 3
20

1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 4
Exiting program...
```

```
Enter elements of the stack separated by space: 10 20 30
Original Stack: [10, 20, 30]
Reversed Stack: [30, 20, 10]
```

```
------------------------------------------------------------
Type your password and press enter:sipa zwuo yeod ohvg
>>>
```