```
aryansharma@Aryans-MacBook-Air Python % python3 1.py
Enter the first integer: 22
Enter the second integer: 30
Enter the first float number: 17.08
Enter the second float number: 29.30
Integer Addition: 22 + 30 = 52
Integer Subtraction: 22 - 30 = -8
Integer Multiplication: 22 * 30 = 660
Integer Division: 22 / 30 = 0.7333333333333333
Integer Modulo: 22 % 30 = 22
Float Addition: 17.08 + 29.3 = 46.379999999999995
Float Subtraction: 17.08 - 29.3 = -12.220000000000002
Float Multiplication: 17.08 * 29.3 = 500.44399999999996
Float Division: 17.08 / 29.3 = 0.5829351535836177
aryansharma@Aryans-MacBook-Air Python % python3 2.py
Enter a number: 7
7 is an Armstrong number.
aryansharma@Aryans-MacBook-Air Python % python3 2.py
Enter a number: 120
120 is not an Armstrong number.
aryansharma@Aryans-MacBook-Air Python % python3 3.py
Enter the starting number: 7
Enter the ending number: 97
Sum of prime numbers between 7 and 97 is: 1050
aryansharma@Aryans-MacBook-Air Python % python3 4.py
Enter the first string: kepler 452b
Enter the second string: and kepler 22b
Original strings: String1 = kepler 452b, String2 = and kepler 22b
Swapped strings: String1 = and kepler 22b, String2 = kepler 452b
aryansharma@Aryans-MacBook-Air Python % python3 5.py
The smallest number in the list is: 1
The greatest number in the list is: 20
aryansharma@Aryans-MacBook-Air Python % python3 6.py
Enter a string: radar
'radar' is a palindrome.
aryansharma@Aryans-MacBook-Air Python % python3 6.py
Enter a string: hubble
'hubble' is not a palindrome.
```

```
aryansharma@Aryans-MacBook-Air Python % python3 7.py

String Function Menu:
1. String Length
2. Uppercase
3. Lowercase
4. Swap Case
5. Reverse
6. Exit
Enter your choice (1/2/3/4/5/6): 1
Enter a string: kepler 452 b is a super earth exoplanet
Length of the string: 39

String Function Menu:
1. String Length
2. Uppercase
3. Lowercase
4. Swap Case
5. Reverse
6. Exit
Enter your choice (1/2/3/4/5/6): 2
Enter a string: james webb
Uppercase: JAMES WEBB
```

```
String Function Menu:
1. String Length
2. Uppercase
3. Lowercase
4. Swap Case
5. Reverse
6. Exit
Enter your choice (1/2/3/4/5/6): 3
Enter a string: VOYaGeR 1
Lowercase: voyager 1

String Function Menu:
1. String Length
2. Uppercase
3. Lowercase
4. Swap Case
5. Reverse
6. Exit
Enter your choice (1/2/3/4/5/6): 4
Enter a string: gaganyaan
Swap Case: GAGANYAAN
```

```
String Function Menu:
1. String Length
2. Uppercase
3. Lowercase
4. Swap Case
5. Reverse
6. Exit
Enter your choice (1/2/3/4/5/6): 5
Enter a string: ganymede
Reversed String: edemynag

String Function Menu:
1. String Length
2. Uppercase
3. Lowercase
4. Swap Case
5. Reverse
6. Exit
Enter your choice (1/2/3/4/5/6): 6
Exiting the program.
```

```
aryansharma@Aryans-MacBook-Air Python % python3 8.py
Enter an email address: andromeda2230@gmail.com
The email address 'andromeda2230@gmail.com' belongs to the domain @gmail.com.
aryansharma@Aryans-MacBook-Air Python % python3 8.py
Enter an email address: mw007@icloud.com
The email address 'mw007@icloud.com' does not belong to the domain @gmail.com.
```

```
aryansharma@Aryans-MacBook-Air Python % python3 9.py
Enter the number of elements in the list: 7
Enter element 1: 19
Enter element 2: 27
Enter element 3: 30
Enter element 4: 457
Enter element 5: 87
Enter element 6: 90
Enter element 7: 2048
The sum of numbers with 7 at the unit's place is: 571
```

```
aryansharma@Aryans-MacBook-Air Python % python3 10.py
List Operations Menu:
1. Insert Element
2. Delete Element
3. Quit
Enter your choice (1/2/3): 1
Enter the element to insert: 30
Enter the position to insert the element: 1
Updated List: ['30']
List Operations Menu:
1. Insert Element
2. Delete Element
3. Quit
Enter your choice (1/2/3): 1
Enter the element to insert: 22
Enter the position to insert the element: 2
Updated List: ['30', '22']
List Operations Menu:
1. Insert Element
2. Delete Element
3. Quit
Enter your choice (1/2/3): 2
Delete Options:
1. By Value
2. By Position
Choose delete option (1/2): 1
Enter the element to delete: 22
'22' has been deleted from the list.
Updated List: ['30']
List Operations Menu:
1. Insert Element
2. Delete Element
3. Quit
Enter your choice (1/2/3): 3
Exiting the program.
```