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PS C:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass> python -u "c:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass\Assignment_7\q1.py"
Enter the radius of the circle: 5
The area of the circle with radius 5 .0 is: 78.54
The circumference of the circle with radius 5.0 is: 31.42
```

```
PS C:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass> python -u "c:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass\Assignment_7\q3.py"
Enter your email address: ok@gmail.com
User-name and Domain tuple: ('ok', 'gmail.com')
```

```
PS C:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass> python -u "c:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass\Assignment_7\q4.py"
Question-Answer Series:
Q: What is your name?
A: Surajit

Q: How old are you?
A: 21

Q: Where do you live?
A: West Bengal
```

```
PS C:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass> python -u "c:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass\Assignment_7\q6.py"
Even Numbers Set: {2, 4, 6, 8, 10}
Composite Numbers Set: {4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20}
Are all numbers in the even numbers set even? True
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Is the even numbers set a superset of the composite numbers set? False
Length of Even Numbers Set: 5
Length of Composite Numbers Set: 11
Sum of Even Numbers Set: 30
Sum of Composite Numbers Set: 132
```

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PS C:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass> python -u "c:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass\Assignment_7\q7.py"
Updated Sequences Set: {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 512, 343, 216, 729, 27, 1000, 125}
Popped Element: 64
Cubes Set after clear(): set()
```

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PS C:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass> python -u "c:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass\Assignment_7\q2.py"
```

```
Topper Details:
Name: Surajit, Subject: Mathematics, Marks: 95
Name: Abhijit, Subject: Physics, Marks: 92
Name: souvik, Subject: Chemistry, Marks: 90
```

```
Updated Topper Details:
Topper Details:
Name: Surajit, Subject: Mathematics, Marks: 95
Name: Abhijit, Subject: Mathematics, Marks: 97
Name: souvik, Subject: Chemistry, Marks: 95
```

```
PS C:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass> python -u "c:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass\Assignment_7\q5.py"
Prime Numbers: {2, 3, 5, 37, 7, 41, 11, 43, 13, 47, 17, 19, 23, 29, 31}
Odd Numbers: {1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49}
Union (Prime U Odd): {1, 2, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49}
Intersection (Prime n Odd): {3, 37, 5, 7, 41, 11, 43, 13, 47, 17, 19, 23, 29, 31}
Difference (Prime - Odd): {2}
Symmetric Difference (Prime Δ Odd): {1, 2, 9, 15, 21, 25, 27, 33, 35, 39, 45, 49}
```

```
PS C:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass> python -u "c:\Users\Surajit Sahoo\OneDrive\Desktop\python\Py_ass\Assignment_7\q8.py"
['Australia', 'Canada', 'Germany', 'India', 'Japan', 'USA']
```