PYTHON DEVELOPER

Task 2

9.Prime Number

10. Sum of Digits

11. LCM and GCD

```
ain.py

1 import math
2 a = int(inpur("Enter first number: "))
3 b = int(inpur("Enter second number: "))
4 gcd = math.gcd(a, b)
5 lcm = abs(a * b) // gcd
6 print("GCD:", gcd)
7 print("LCM:", lcm)

Enter first number: 12
Enter second number: 18
GCD: 6
LCM: 36

...Program finished with exit code 0
Press ENTER to exit console.
```

12. List Reversal

13. Sort a List

```
main.py

1 lst = list(map(int, input("Enter numbers separated by space: ").split()))
2 n = len(lst)
3 for i in range(n):
4 for j in range(0, n - i - 1):
5 if lst[j] > lst[j + 1]:
6 # Swap
7 lst[j], lst[j + 1] = lst[j + 1], lst[j]
8 print("Sorted list:", lst)

Enter numbers separated by space: 5 8 7 6 3

Sorted list: [3, 5, 6, 7, 8]

...Program finished with exit code 0

Press ENTER to exit console.
```

14. Remove Duplicates

15. String Length

6. Count Vowels and Consonants;

2. Maze Generator and Solver

<u>a.</u>

<u>b.</u>

c. OUTPUT

