

## Output:

```
C:\Users\Roshan\Desktop\5thsem_Github>cd "c:\Users\Roshan\Desktop\5thsem_Github\DAA\5thsem_Github\DAA\lab1"
```

```
Enter 1 for GCD
Enter 2 for Factorial
Enter 3 for Linear Search
Enter 4 for Fibonacci Series
Enter 5 for Exit
Enter a number (1-5): 1
Enter value of a and b:
20
6
The value of GCD(20, 6) is: 2
```

```
Enter 1 for GCD
Enter 2 for Factorial
Enter 3 for Linear Search
Enter 4 for Fibonacci Series
Enter 5 for Exit
Enter a number (1-5): 2
Enter a number for factorial: 6
The factorial value of 6! is 720
```

```
Enter 1 for GCD
Enter 2 for Factorial
Enter 3 for Linear Search
Enter 4 for Fibonacci Series
Enter 5 for Exit
Enter a number (1-5): 3
Enter an array of size 5:
3
6
2
8
1
Enter a number to search: 2
Element found at index: 2
```

```
Enter 1 for GCD
Enter 2 for Factorial
Enter 3 for Linear Search
Enter 4 for Fibonacci Series
Enter 5 for Exit
Enter a number (1-5): 4
Enter the number of terms to print: 7
0 1 1 2 3 5 8
```

```
Enter 1 for GCD
Enter 2 for Factorial
Enter 3 for Linear Search
Enter 4 for Fibonacci Series
Enter 5 for Exit
Enter a number (1-5): 5
Exit successfully
```

```
c:\Users\Roshan\Desktop\5thsem_Github\DAA>
```