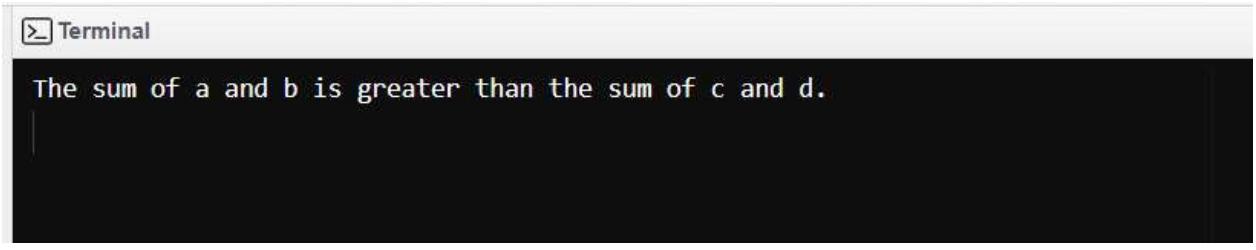
Introductions to Java

Task 1: Check if Sum of a and b is Greater than Sum of c and d

```
public class SumComparison {
	public static void main(String[] args) {
		int a = 5;
		int b = 10;
		int c = 3;
		int d = 6;
		if (a + b > c + d) {
			System.out.println("The sum of a and b is greater than the sum of c and d.");
		} else {
			System.out.println("The sum of a and b is not greater than the sum of c and d.");
		}
	}
}
```

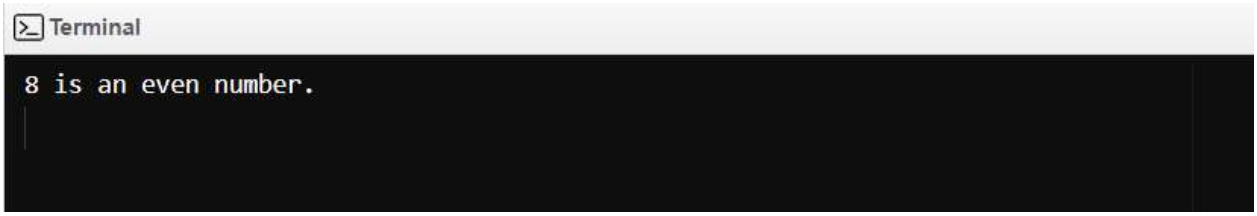
Output:



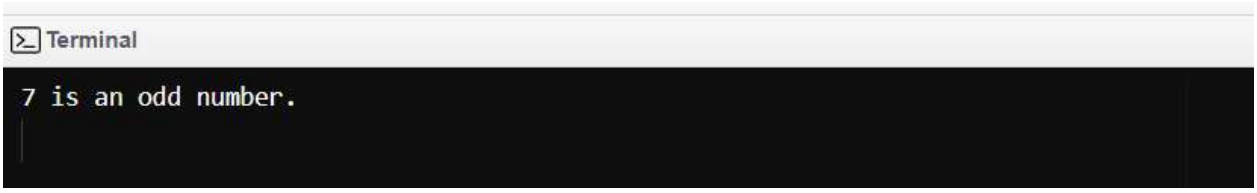
Task 2: Check if a Number is Even

```
public class EvenCheck {
  public static void main(String[] args) {
    int number = 8;
    if (number % 2 == 0) {
      System.out.println(number + " is an even number.");
    } else {
      System.out.println(number + " is an odd number.");
    }
  }
}
```

Output 1:



Output 2:



Task 3: Print Characters from A to Z

```
public class PrintAlphabets {
  public static void main(String[] args) {
    for (char ch = 'A'; ch <= 'Z'; ch++) {
      System.out.print(ch + " ");
    }
  }
}
```

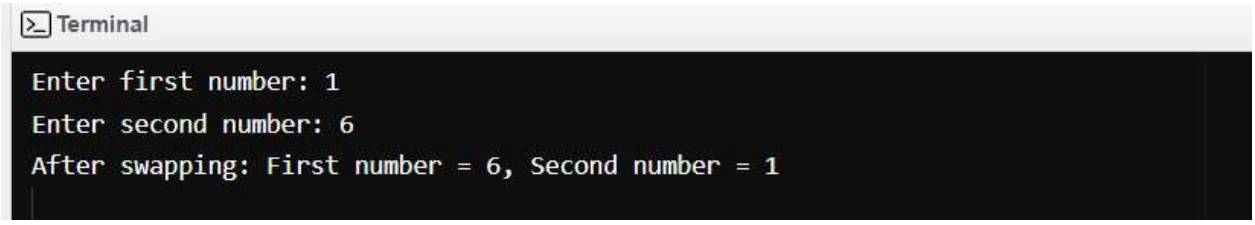
Output:

Task 4: Swap Two Numbers

```
import java.util.Scanner;

public class SwapNumbers {
  public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter first number: ");
      int num1 = scanner.nextInt();
      System.out.print("Enter second number: ");
      int num2 = scanner.nextInt();
      int temp = num1;
      num1 = num2;
      num2 = temp;
      System.out.println("After swapping: First number = " + num1 + ", Second number =
" + num2);
  }
}
```

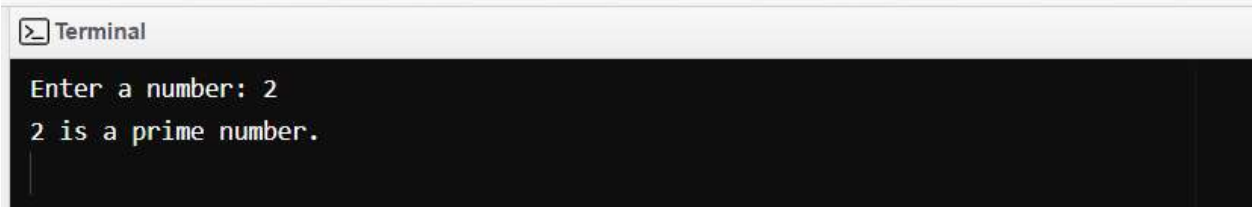
Output:



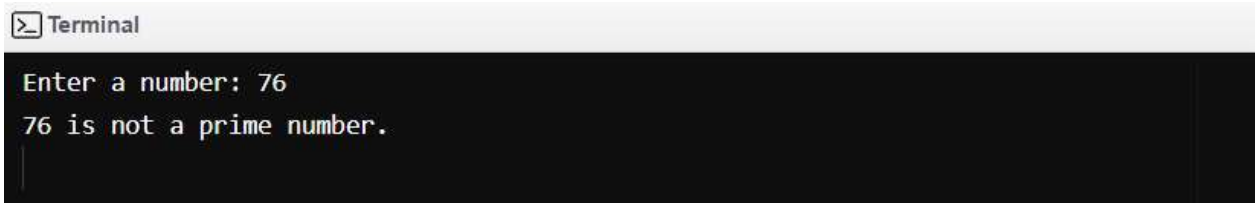
Task 5: Check if a Number is Prime

```java
import java.util.Scanner;
public class PrimeCheck {
  public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter a number: ");
      int number = scanner.nextInt();
      boolean isPrime = true;
      if (number <= 1) {
          isPrime = false;
      } else {
          for (int i = 25; i <= number / 2; i++) {
              if (number % i == 0) {
                  isPrime = false;
              }
          }
      }
      if (isPrime) {
          System.out.println(number + " is a prime number.");
      } else {
          System.out.println(number + " is not a prime number.");
      }
  }
}
```

Output 1:



Output 2:

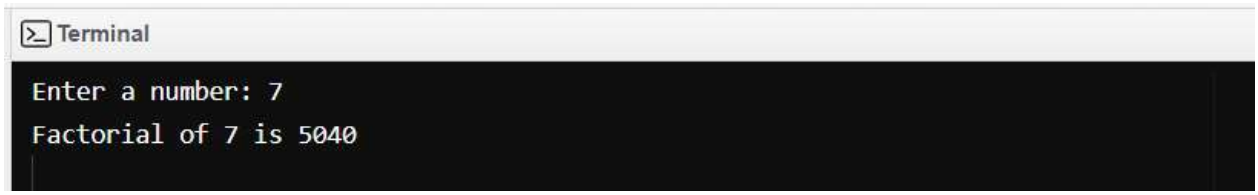


Task 6: Factorial of a Given Number

```
import java.util.Scanner;

public class Factorial {
	public static void main(String[] args) {
		Scanner scanner = new Scanner(System.in);
		System.out.print("Enter a number: ");
		int number = scanner.nextInt();
		long factorial = 1;
		for (int i = 1; i <= number; i++) {
			factorial *= i;
		}
		System.out.println("Factorial of " + number + " is " + factorial);
	}
}
```

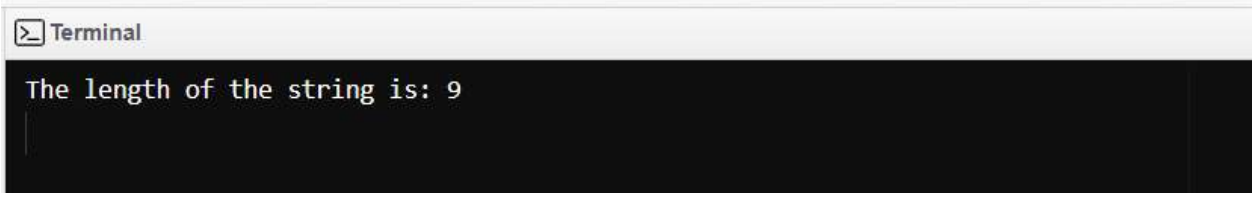
Output:



Task 7: Print the Length of a String

```
public class StringLength {
  public static void main(String[] args) {
    String msg = "Guvi Geek";
    System.out.println("The length of the string is: " + msg.length());
  }
}
```

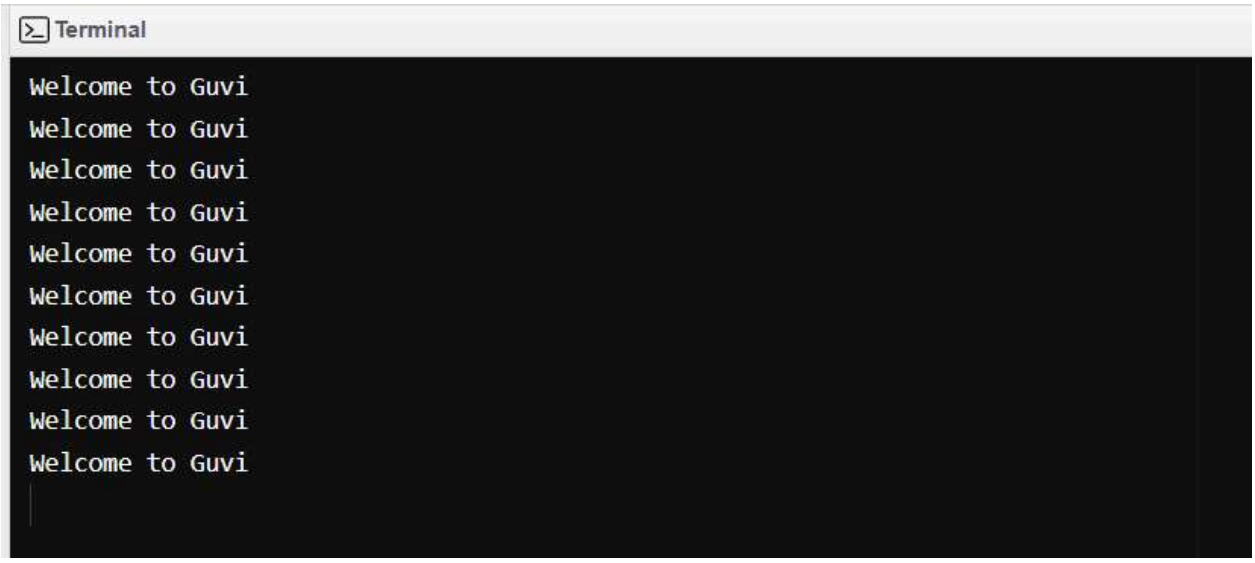
Output:



Task 8: Print "Welcome to Guvi" 10 Times

```
public class PrintWelcome {
  public static void main(String[] args) {
    for (int i = 0; i < 10; i++) {
      System.out.println("Welcome to Guvi");
    }
  }
}
```

Output:



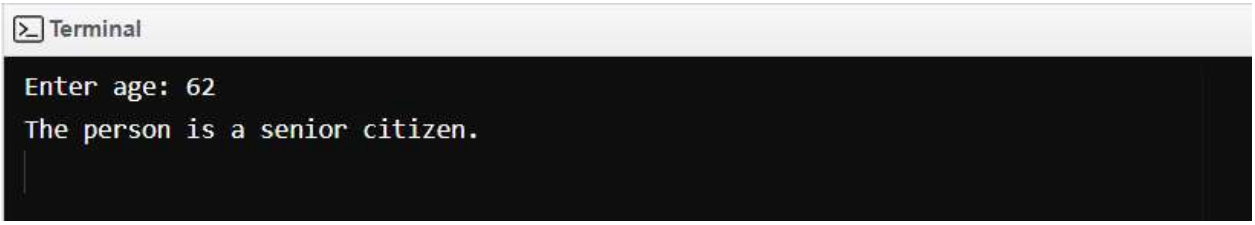
Task 9: Check if a Person is a Senior Citizen

```java
import java.util.Scanner;

public class SeniorCitizenCheck {
  public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter age: ");
      int age = scanner.nextInt();
      if (age >= 60) {
          System.out.println("The person is a senior citizen.");
      } else {
          System.out.println("The person is not a senior citizen.");
      }
  }
}
```

Output 1:

Output 2:



Task 10: Count Number of Digits in an Integer

```
import java.util.Scanner;

public class DigitCount {
  public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      System.out.print("Enter an integer: ");
      int number = scanner.nextInt();
      int count = 0;
      while (number != 0) {
          number /= 10;
          count++;
      }
      System.out.println("Number of digits: " + count);
  }
}
```

Output: