Java Lab Assessment 2
Aaditya Kumar Muktavarapu
HU21CSEN0100580

1. printing Fibonacci series up to given range

```java
// printing Fibonacci series up to given range

import java.util.Scanner;



public class Fibonacci {



   public static void main(String[] args) {



       Scanner scanner = new Scanner(System.in);

       System.out.print("Enter the number of terms: ");

       int n = scanner.nextInt();



       int a = 0, b = 1, c;

       System.out.print(a + " " + b);



       for (int i = 2; i < n; i++) {

           c = a + b;

           System.out.print(" " + c);

           a = b;

           b = c;

       }
```

```
        scanner.close();

    }

}
```

Output

Enter the number of terms: 5

0 1 1 2 3%

2. converting entered 3 digit number to money in words.

```
import java.util.Scanner;



public class NumberToWords {



    private static final String[] ONES = { "", "one", "two", "three", "four", "five",
"six", "seven", "eight", "nine" };

    private static final String[] TENS = { "", "", "twenty", "thirty", "forty",
"fifty", "sixty", "seventy", "eighty", "ninety" };

    private static final String[] TEENS = { "ten", "eleven", "twelve", "thirteen",
"fourteen", "fifteen", "sixteen", "seventeen", "eighteen", "nineteen" };



    public static void main(String[] args) {



        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter a 3-digit number: ");

        int num = scanner.nextInt();
```

```
    if (num < 100 || num > 999) {
        System.out.println("Invalid input. Please enter a 3-digit number.");
    } else {
        System.out.println(convert(num)+"dollars" );
    }
    scanner.close();
}

private static String convert(int num) {
    String result = "";

    int hundred = num / 100;
    int remainder = num % 100;
    int tens = remainder / 10;
    int ones = remainder % 10;

    if (hundred > 0) {
        result += ONES[hundred] + " hundred ";
    }

    if (tens == 1) {
        result += TEENS[ones] + " ";
    } else {
```

```
            result += TENS[tens] + " ";

            result += ONES[ones] + " ";

        }



        return result;



    }

}
```

Output

Enter a 3-digit number: 527

five hundred twenty seven dollars