OOPS LAB EXCERCISE

TEAM 3:Tavamani raja durai.j,kishore,jegatheshpathy,kamaleshwaren,yuvaraj.

program1:

```
public class JavaFindMinimumTwoNumberUsingConditionalOperator {

	public static void main(String args[]) {

		int i = 10;

		int j = 8;

		int result = (i < j) ? i : j;

		System.out.println(result + " is a minimum value");
	}
}
```

OUTPUT:

8 is a minimum value

program2:

```
public class JavaSumOfIntegersInRange {

	public static void main(String args[]) {

		int result = 0;
```

```
                for (int i = 100; i <= 200; i++) {

                        if (i % 7 == 0)

                                result += i;

                }

                System.out.println("Output of Program is : " + result);
        }
}
```

OUTPUT:

Output of Program is : 2107

program3:

```
        import java.util.Scanner;

        class Harmonic

        {

        public static void main(String... a)

                {
```

```
System.out.print("Enter any number : ");

Scanner s = new Scanner(System.in);

int num = s.nextInt();

System.out.print("The Harmonic Series is : ");

double result = 0.0;

while(num > 0)

   {

            result = result + (double) 1 / num;

            num--;

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

   }

System.out.println("");

System.out.println("Output of Harmonic Series is "+result);
```

```
            }


    }
```

OUTPUT:

Enter any number : 5

The Harmonic Series is : 0.2 0.45 0.7833333333333333 1.2833333333333332 2.283333333333333

Output of Harmonic Series is 2.283333333333333

program4:

```
  public class NumberToWord
{
    private static final String[] specialNames = {
            "",
            " thousand",
            " million",
            " billion",
            " trillion",
            " quadrillion",
            " quintillion"
    };

    private static final String[] tensNames = {
            "",
```

```
        " ten",
        " twenty",
        " thirty",
        " forty",
        " fifty",
        " sixty",
        " seventy",
        " eighty",
        " ninety"
};

private static final String[] numNames = {
        "",
        " one",
        " two",
        " three",
        " four",
        " five",
        " six",
        " seven",
        " eight",
        " nine",
        " ten",
        " eleven",
        " twelve",
```

```
        " thirteen",
        " fourteen",
        " fifteen",
        " sixteen",
        " seventeen",
        " eighteen",
        " nineteen"
};

private String convertLessThanOneThousand(int number) {
        String current;

        if (number % 100 < 20){
                current = numNames[number % 100];
                number /= 100;
        }
        else {
                current = numNames[number % 10];
                number /= 10;

                current = tensNames[number % 10] + current;
                number /= 10;
        }
        if (number == 0) return current;
        return numNames[number] + " hundred" + current;
```

```
}

public String convert(int number) {

    if (number == 0) { return "zero"; }

    String prefix = "";

    if (number < 0) {
        number = -number;
        prefix = "negative";
    }

    String current = "";
    int place = 0;

    do {
        int n = number % 1000;
        if (n != 0){
            String s = convertLessThanOneThousand(n);
            current = s + specialNames[place] + current;
        }
        place++;
        number /= 1000;
    } while (number > 0);
```

```
            return (prefix + current).trim();
        }

        public static void main(String[] args) {
            NumberToWord obj = new NumberToWord();
            System.out.println("*** " + obj.convert(123456789));
            System.out.println("*** " + obj.convert(-55));
        }
}
```

Input : 123456789

Output: Twelve crore thirty four lakhs fifty six thousand seven hundred eighty nine

program5:

```
import java.util.*;
class PalindromeExample2
{
    public static void main(String args[])
    {
        String original, reverse = ""; // Objects of String class
        Scanner in = new Scanner(System.in);
        System.out.println("Enter a string/number to check if it is a palindrome");
        original = in.nextLine();
        int length = original.length();
        for ( int i = length - 1; i >= 0; i-- )
```

```
            reverse = reverse + original.charAt(i);
        if (original.equals(reverse))
            System.out.println("Entered string/number is a palindrome.");
        else
            System.out.println("Entered string/number isn't a palindrome.");
    }
}
```

OUTPUT:

454

entered number is palindrome.