

Lab 1

1) Program to display 'Welcome to Java'.

→ Solution:

```
class Welcome{
    public static void main(String[] args){
        System.out.println("Welcome to Java");
    }
}
```

2) Addition of two number using command line arguments.

→ Solution:

```
public class SumOfTwo{
    static Scanner input = new Scanner(System.in);
    public static void main(String args[]){
        int sum = 0;
        for each(int x: args)
            sum += x;
        System.out.println("The sum is " + sum);
    }
}
```

3) Addition of two numbers using Scanner class.

→ Solution:

```
import java.util.Scanner;
public class SumOfTwo{
    static Scanner input = new Scanner(System.in);
    public static void main(String args[]){
        //Scanner input = new Scanner();
        var num1 = input.nextInt();
        var num2 = input.nextInt();
        System.out.println("The sum is " + (num1+num2));
    }
}
```

4) Program to enter a number and check odd/even.

→ Solution:

```
import java.util.Scanner;
public class CheckParity{
    public static void main(String args[]){
        var in = new Scanner(System.in);
        System.out.print("Enter the number ");
        int num = in.nextInt();
        if(num%2 == 0)
            System.out.println("Even");
        else
            System.out.println("Odd");
    }
}
```

5) Program to display the series.

```
      *
     ***
    *****
   ********
  *********
 *****
```

→ Solution:

```
public class Pattern{
    public static void main(String[] args){
        int k;
        for(int i=0;i<5;i++){
            for(k=i;k<5;k++)
                System.out.print(" ");
            for(int j=0;j<2*i+1;j++){
                System.out.print("*");
            }
            System.out.print("\n");
        }
    }
}
```

6) Program to display the series
22 11 34 17 52 26 13 40 20 10

→ Solution:

```
public class NumberPattern{
    public static void main(String args[]) {
        int num = 22;
        System.out.println(num);
        for(int i=0;i<10;i++){
            if (num%2==0) {
                num /= 2;
                System.out.println(num);
            }
            else{
                num = num*3 + 1;
                System.out.println(num);
            }
        }
    }
}
```

The End