

ASSIGNMENT – 1

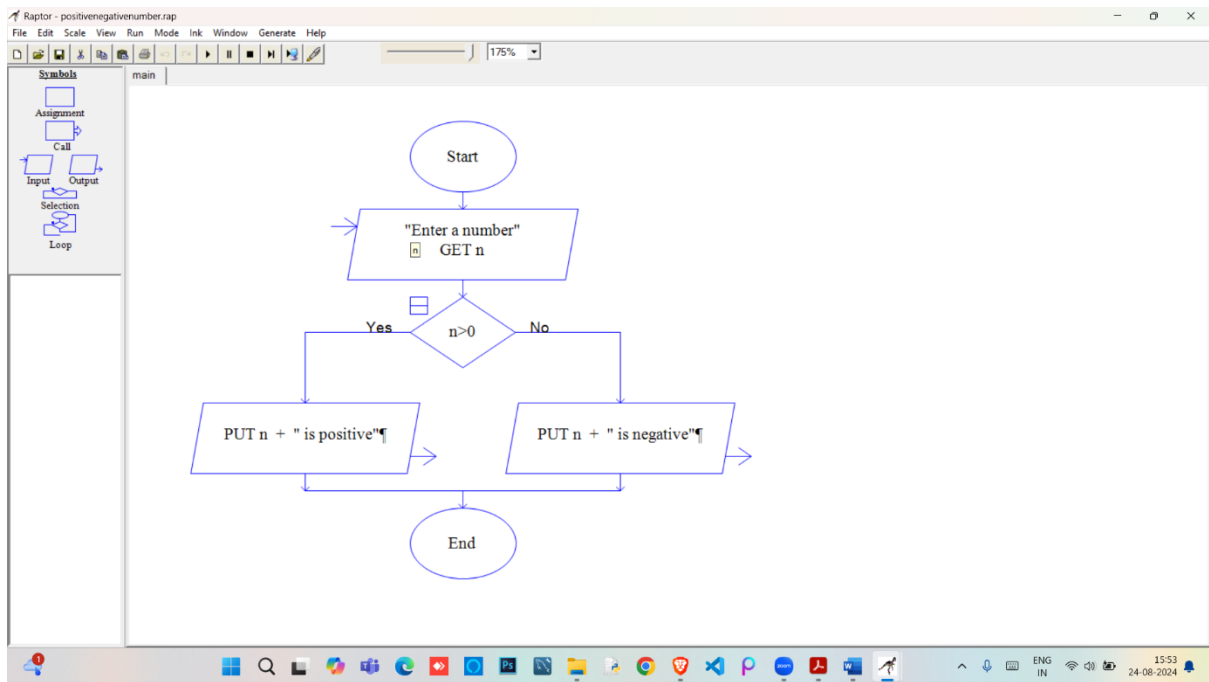
1. Check Positive Number:

- Task: Create a flowchart to check whether a number is positive.
- Next Step: Write a Java program that checks if a predefined number is positive using an if-else statement and prints the appropriate message.

2. Check Negative Number:

- Task: Create a flowchart to check whether a number is negative.
- Next Step: Write a Java program that checks if a predefined number is negative using an if-else statement and displays the result.

Ans :-



Code :-

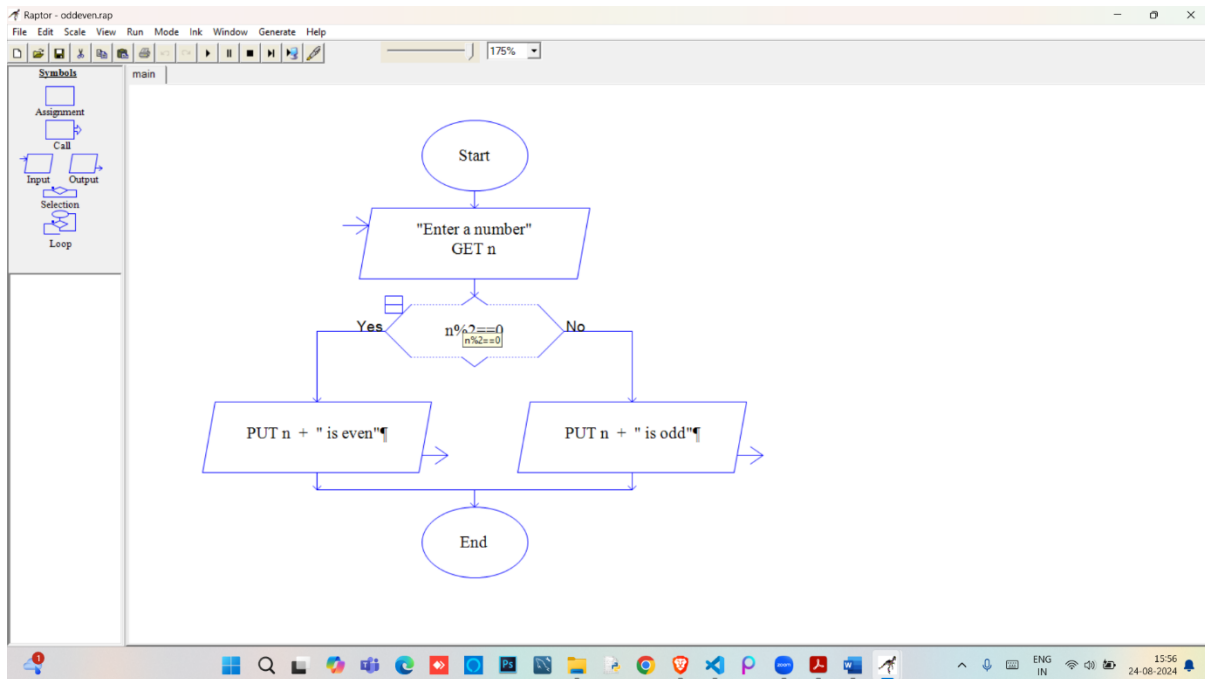
```
import java.util.*;
```

```
class Positivenegativenumber {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter a number");  
        int n = sc.nextInt();  
        if (n > 10) {  
            System.out.println(n + " is positive number");  
        } else {  
            System.out.println(n + " is negative number");  
        }  
    }  
}
```

3. Check Odd or Even Number:

- Task: Create a flowchart to determine whether a number is odd or even.
- Next Step: Write a Java program that checks if a predefined number is odd or even. Use an if-else statement and the modulus operator (%) to determine whether the number is divisible by 2 or not.

Ans:-



Code:-

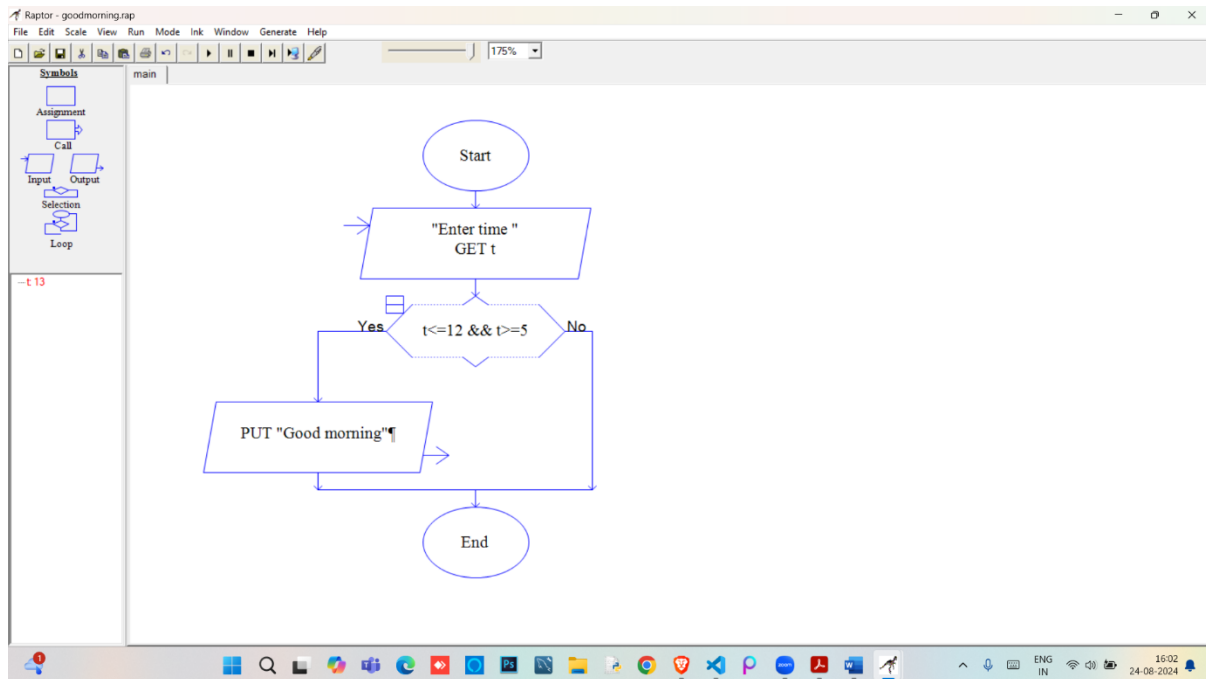
```
import java.util.Scanner;
```

```
public class Oddeven {  
    public static void main(String args[]) {  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter a number");  
        int n = sc.nextInt();  
        if (n % 2 == 0) {  
            System.out.println(n + " is is even number");  
        } else {  
            System.out.println(n + " is odd number");  
        }  
    }  
}
```

4. Display Good Morning Message Based on Time:

- Task: Create a flowchart to display a "Good Morning" message based on a given time.
- Next Step: Write a Java program that displays a "Good Morning" message if the predefined time is between 5 AM and 12 PM. Use an if statement to implement the logic.

Ans:-



Code:-

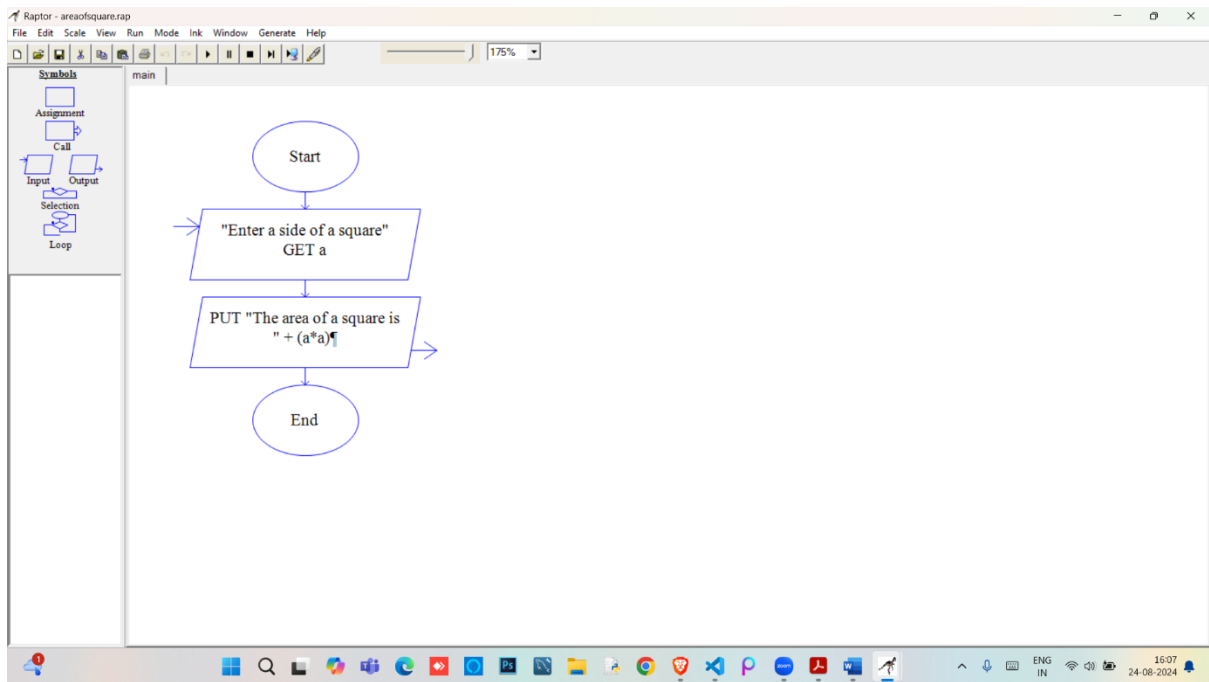
```
import java.util.*;
```

```
public class Goodmorning {  
    public static void main(String args[]) {  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter time");  
        int time = sc.nextInt();  
        if (time <= 12 && time >= 5) {  
            System.out.println("Good morning");  
        }  
    }  
}
```

5. Print Area of a Square:

- Task: Create a flowchart to calculate and print the area of a square.
- Next Step: Write a Java program that calculates the area of a square using the formula $\text{area} = \text{side} * \text{side}$. Use a predefined side length.

Ans :-



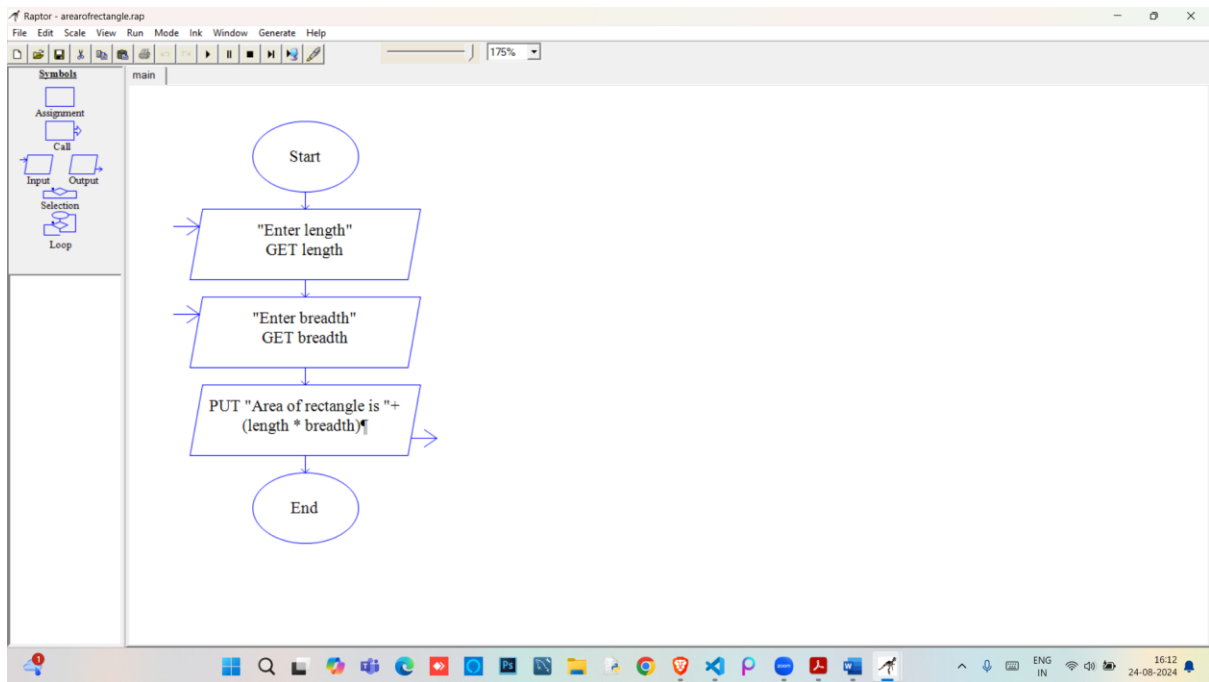
Code:-

```
public class Areaofsquare {  
    public static void main(String args[]) {  
        int side = 5;  
        System.out.println("area of square is " + (side * side));  
    }  
}
```

6. Print Area of a Rectangle:

- Task: Create a flowchart to calculate and print the area of a rectangle.
- Next Step: Write a Java program that calculates the area of a rectangle using the formula $\text{area} = \text{length} * \text{width}$. Use predefined values for length and width.

Ans :-



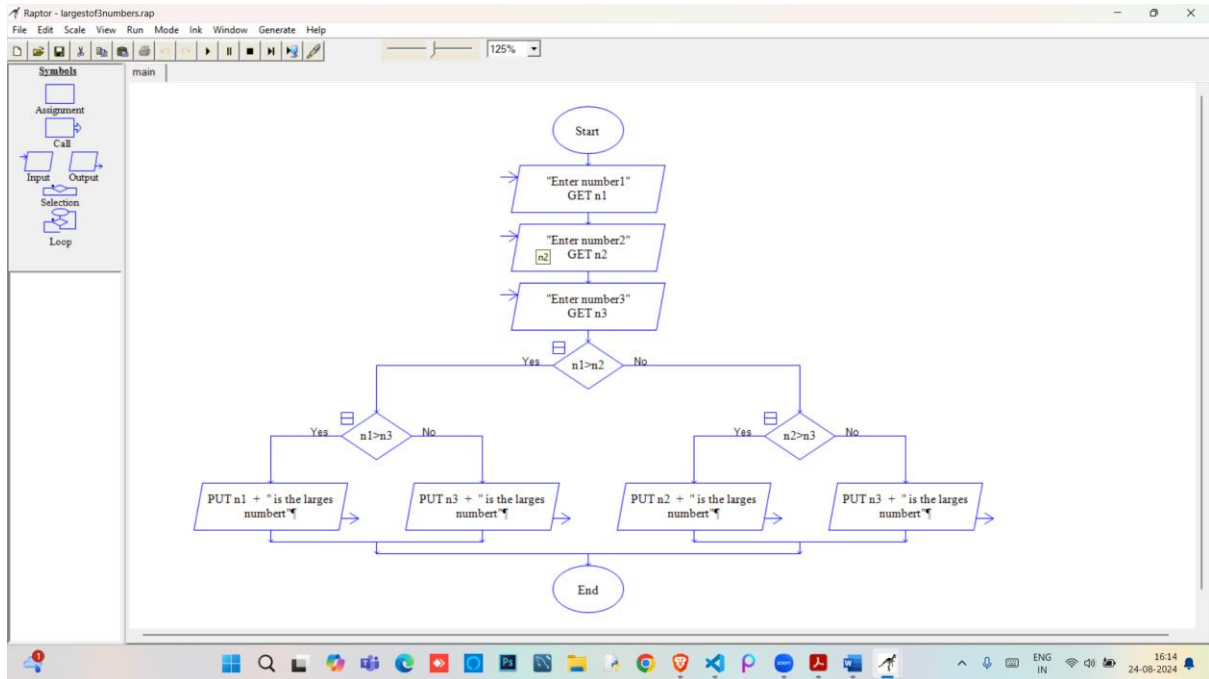
Code :-

```
public class Areaofrectangle {  
    public static void main(String args[]) {  
        int length = 20;  
        int breadth = 30;  
        int area = length * breadth;  
        System.out.println("Area of rectangle is " + area);  
    }  
}
```

7. Find the Largest of Three Numbers:

- Task: Create a flowchart to find the largest of three numbers.
- Next Step: Write a Java program that finds and prints the largest of three predefined numbers using if-else statements.

Ans :-



Code:-

```

public class Largestof3numbers {
    public static void main(String args[]) {
        int a = 10, b = 20, c = 60;
        if (a > b) {
            if (a > c) {
                System.out.println(a + " is the largest number");
            } else {
                System.out.println(c + " is the largest number");
            }
        } else {
            if (b > c) {
                System.out.println(b + " is the largest number");
            } else {
                System.out.println(c + " is the largest number");
            }
        }
    }
}

```