OBJECT ORIENTED PROGRAMMING LAB Internal II

NIMISHA JAMES REG MCA – B ROLL NO: 11 1. Using exception handling, develop a program to perform all the arithmetic operations.

Program:

```
public class Handle{
    public static void main(String[] args) {
        try{
        int firstNum = 25;
        int secondNum = 20%2;
        int div = firstNum/secondNum;
        System.out.println("Result: "+ div);
        catch(ArithmeticException ae){
            System.out.println("Arithmetic
Exception occurred in code");
        System.out.println("After division");
        //addition
        try{
        int firstNum = 25;
        int secondNum = 20;
        int sum = firstNum+secondNum;
        System.out.println("Result: "+ sum);
```

```
catch(ArithmeticException ae){
            System.out.println("Arithmetic
Exception occurred in code");
        System.out.println("After addition");
        //Substraction
        try{
        int firstNum = 25;
        int secondNum = 20;
        int sub = firstNum-secondNum;
        System.out.println("Result: "+ sub);
        catch(ArithmeticException ae){
            System.out.println("Arithmetic
Exception occurred in code");
        System.out.println("After substraction");
        //multiplication
        try{
        int firstNum = 25;
        int secondNum = 20;
        int mul = firstNum*secondNum;
        System.out.println("Result:"+ mul);
```

```
catch(ArithmeticException ae){
            System.out.println("Arithmetic
Exception occurred in code");
        System.out.println("After multiplication");
        //modulo
        try{
        int firstNum = 25;
        int secondNum = 20;
        int mod = firstNum%secondNum;
        System.out.println("Result: "+ mod);
        catch(ArithmeticException ae){
            System.out.println("Arithmetic
Exception occurred in code");
        System.out.println("After modulo");
    }
}
```

Output:

```
Arithmetic Exception occurred in code

After division

Result : 45

After addition

Result : 5

After substraction

Result : 500

After multiplication

Result : 5

After modulo

Process finished with exit code 0
```

2. Using an applet, draw a traffic light and change the colour using a mouse event.

Program:

```
import java.awt.*;
import java.awt.event.*;
```

import java.awt.event.MouseEvent;

public class trafic extends Frame
implements MouseListener {

```
int cir = 0;
```

```
public trafic() {
  addMouseListener(this);
  setSize(300, 300);
  setLayout(null);
  setVisible(true);
public void mouseClicked(MouseEvent e)
  Graphics g = getGraphics();
  g.setColor(Color.red);
  g.fillOval(100, 20, 50, 100);
  if (e.getClickCount() == 1) {
    g.setColor(Color.green);
    g.fillOval(100, 20, 50, 100);
  } else if (e.getClickCount() == 2) {
    g.setColor(Color.yellow);
    g.fillOval(100, 20, 50, 100);
```

```
public void mouseEntered(MouseEvent
e) {
 public void mouseExited(MouseEvent e) {
 public void mousePressed(MouseEvent e)
 public void mouseReleased(MouseEvent
e) {
```

```
public static void main(String[] args) {
   new trafic();
<html>
<head>
</head>
<body>
<div align="center">
<applet code="tdf.class" width="80
0" height="500">
</applet>
</div>
</body>
</html>
```

Output:



