200905130
manoj

CSE-2163

STUDENT'S NAME: Manoj M. Mallya		TOTAL MARKS OBTAINED
CLASS: 3rd sem	SUBJECT: OOPL - endsem	
ROLL NO: 23	DATE: 11-01-2022	

```
import javafx.application.Application;
import javafx.stage.Stage;
import javafx.scene.Scene;
import javafx.event.ActionEvent;
import javafx.event.EventHandler;
import javafx.geometry.*;
import javafx.scene.control.*;
import javafx.scene.layout.*;
import javafx.geometry.Insets;
import javafx.scene.image.Image;
import javafx.scene.image.ImageView;
import javafx.scene.canvas.*;
import javafx.scene.paint.Color;
import javafx.scene.Group;

public class PrimeSeries extends Application
{
public static void main (String[] args)
{
    launch(args);
}

@Override
public void start (Stage primaryStage)
{
    primaryStage.setTitle("OOPL endsem : Prime series");
    Label lbl1 = new Label("Prime series Generator");
    Label lbl2 = new Label("From");
    Label lbl3 = new Label("To");
    TextField txt1 = new TextField();
    TextField txt2 = new TextField();
    Button btn = new Button();
    btn.setText("Generate");
```

Priya

200905130
Manoj

Manoj M. Mallya

```
FlowPane root = new
FlowPane (orientation.VERTICAL);
root.getChildren().add(lbl1);
root.getChildren().add(lbl2);
root.getChildren().add(txt1);
root.getChildren().add(lbl3);
root.getChildren().add(txt2);
root.setPadding(new Insets(10,10,10,10));

btn.setOnAction(
new EventHandler<ActionEvent>(){
  @Override
    public void handler(ActionEvent event)
{
  int from = Integer.parseInt(txt1.getText());
  int to = Integer.parseInt(txt2.getText());

Canvas canvas = new Canvas(200.0f, 200.0f);
GraphicsContext graphics_context = canvas.getGraphics
                                   Context2D();

graphics_context.setFill(Color.Black);
    root.getChildren().add(canvas);
  }
});
root.getChildren().add(btn);
primaryStage.setScene(new Scene(root, 500, 200));
primaryStage.show();
}
}
```

200905130
Manoj

Manoj M. Mallya

```
Class InvalidRangeException {
private int low_limit;
private int up_limit;

InvalidRangeException (int low, int up) {
 low_limit = low;
 up_limit = up;
}

public String toString()
{
 if (up_limit < low_limit)
 return "Lower limit should be smaller
         than upper limit.";
 else if (up_limit < 0 || low_limit < 0)
 return "Either or both limits are
         negative.";
 else
 {
    generate_prime_series (low_limit, up_limit);
    return " ";
  }
 }
}
```

Priya

200905130
Manoj

Manoj M. Mallya

```
public class PrimeSeries extends Application
{
  public static String generate_prime_series(int lower,
                                             int upper);

  {
    String ans = " ";
    for (int i = lower; i<= upper; i++)
    {
      boolean flag = true;
      for (int j= 2; j<i; j++)
      {
        if (j%i == 0)
        {
          flag = false;
          break;
        }
      }
    if (flag)
    ans += Integer.toString(i)+ " is a prime
                                 Number\n";
  }
  return ans;
}
```