

## Slip 4

### 10 Marks:

```
java
Copy code
import java.text.SimpleDateFormat;
import java.util.Date;

public class DateTime {
    public static void main(String args[]) {
        Date date = new Date();
        SimpleDateFormat formatter = new SimpleDateFormat("dd/MM/yyyy");
        String strDate = formatter.format(date);
        System.out.println("Current date is: " + strDate);

        formatter = new SimpleDateFormat("MM-dd-yyyy");
        strDate = formatter.format(date);
        System.out.println("Current date is: " + strDate);

        formatter = new SimpleDateFormat("EEEE MMMM dd yyyy");
        strDate = formatter.format(date);
        System.out.println("Current date is: " + strDate);

        formatter = new SimpleDateFormat("E MMMM dd HH:mm:ss z yyyy");
        strDate = formatter.format(date);
        System.out.println("Current date and time is: " + strDate);

        formatter = new SimpleDateFormat("dd/MM/yy HH:mm:ss a Z");
        strDate = formatter.format(date);
        System.out.println("Current date and time is: " + strDate);

        formatter = new SimpleDateFormat("HH:mm:ss");
        strDate = formatter.format(date);
        System.out.println("Current time is: " + strDate);

        formatter = new SimpleDateFormat("w");
        strDate = formatter.format(date);
        System.out.println("Current week of the year is: " + strDate);

        formatter = new SimpleDateFormat("W");
        strDate = formatter.format(date);
        System.out.println("Current week of the month is: " + strDate);

        formatter = new SimpleDateFormat("D");
        strDate = formatter.format(date);
        System.out.println("Current day of the year: " + strDate);
    }
}
```

### 20 Marks:

```
java
Copy code
import java.awt.*;
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import java.awt.event.*;
import javax.swing.*;

public class MouseEvents extends JFrame implements MouseListener,
MouseMotionListener {
    String str = "";
    JTextArea ta;
    Container c;
    int x, y;

    MouseEvents() {
        c = getContentPane();
        c.setLayout(new FlowLayout());
        ta = new JTextArea("Click the mouse or move it", 5, 20);
        ta.setFont(new Font("Arial", Font.BOLD, 20));

        c.add(ta);
        ta.addMouseListener(this);
        ta.addMouseMotionListener(this);
    }

    public void mouseClicked(MouseEvent me) {
        int i = me.getButton();
        if (i == 1) str += "Clicked Button: Left";
        else if (i == 2) str += "Clicked Button: Middle";
        else if (i == 3) str += "Clicked Button: Right";
        this.display();
    }

    public void mouseEntered(MouseEvent me) {
        str += "MouseEntered";
        this.display();
    }

    public void mouseExited(MouseEvent me) {
        str += "Mouse Exited";
        this.display();
    }

    public void mousePressed(MouseEvent me) {
        x = me.getX();
        y = me.getY();
        str += "Mouse Pressed at:" + x + "\t" + y;
        this.display();
    }

    public void mouseReleased(MouseEvent me) {
        x = me.getX();
        y = me.getY();
        str += "Mouse Released at:" + x + "\t" + y;
        this.display();
    }

    public void mouseDragged(MouseEvent me) {
        x = me.getX();
        y = me.getY();
        str += "Mouse Dragged at:" + x + "\t" + y;
    }
}

```

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        this.display();
    }

    public void mouseMoved(MouseEvent me) {
        x = me.getX();
        y = me.getY();
        str += "Mouse Moved at:" + x + "\t" + y;
        this.display();
    }

    public void display() {
        ta.setText(str);
        str = "";
    }

    public static void main(String args[]) {
        MouseEvents m = new MouseEvents();
        m.setSize(400, 400);
        m.setVisible(true);
        m.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```