

Q1. Write a program to display 3 lines in following pattern using fontmetrics.

Line 1. Line 1.1

Line 2. Line 2.2

Line 3

Ans:-

The screenshot shows a Visual Studio Code editor with a Java file named `Display_3_line.java`. The code is as follows:

```
1 import java.applet.*;
2 import java.awt.*;
3 public class Display_3_line extends Applet
4 {
5     int curX=0, curY=0;
6     public void init()
7     {
8         Font f = new Font("Arial", Font.PLAIN, 12); setFont(f);
9     }
10    public void paint(Graphics g)
11    {
12        FontMetrics fm = g.getFontMetrics();
13        nextLine("Line 1. Line 1.1", g);
14        nextLine("Line 2. Line 2.2.", g);
15        nextLine("Line 3", g);
16
17        curX = curY = 0;
18    }
19    void nextLine(String s, Graphics g)
20    {
21        FontMetrics fm = g.getFontMetrics();
22        curY += fm.getHeight();
23        curX = 0;
24        g.drawString(s, curX, curY);
25        curX = fm.stringWidth(s);
26    }
27    void sameLine(String s, Graphics g)
28    {
29        FontMetrics fm = g.getFontMetrics();
30        g.drawString(s, curX, curY);
31        curX += fm.stringWidth(s);
32    }
33 }
34
```

Below the code editor, there is a terminal window showing the command prompt output:

```
C:\Windows\System32\cmd.exe - appletviewer Display_3_line.html
Microsoft Windows [Version 10.0.19042.985]
(c) Microsoft Corporation. All rights reserved.

E:\ALL _ ASSIMENT -KPC\6_TH SEMESTER\Advance JAVA_Moloy Kumi Giri\assignment4>javac Display_3_line.java
Note: Display_3_line.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.

E:\ALL _ ASSIMENT -KPC\6_TH SEMESTER\Advance JAVA_Moloy Kumi Giri\assignment4>appletviewer Display_3_line.html
Warning: Applet API and AppletViewer are deprecated.
```

Below the terminal, there is a window titled "Applet Viewer: Display_3_line.class" showing the output of the applet:

```
Applet
Line 1. Line 1.1
Line 2. Line 2.2.
Line 3
Applet started.
```