

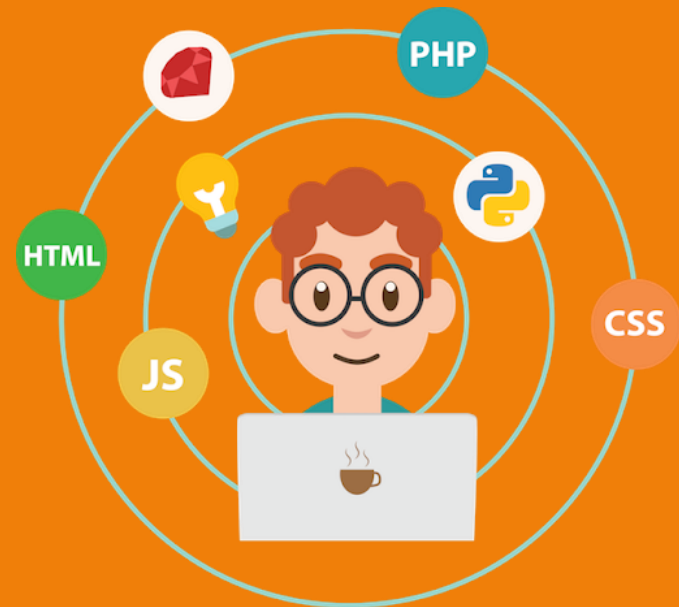
KOMPUTER GRAFIK

LINE CHART

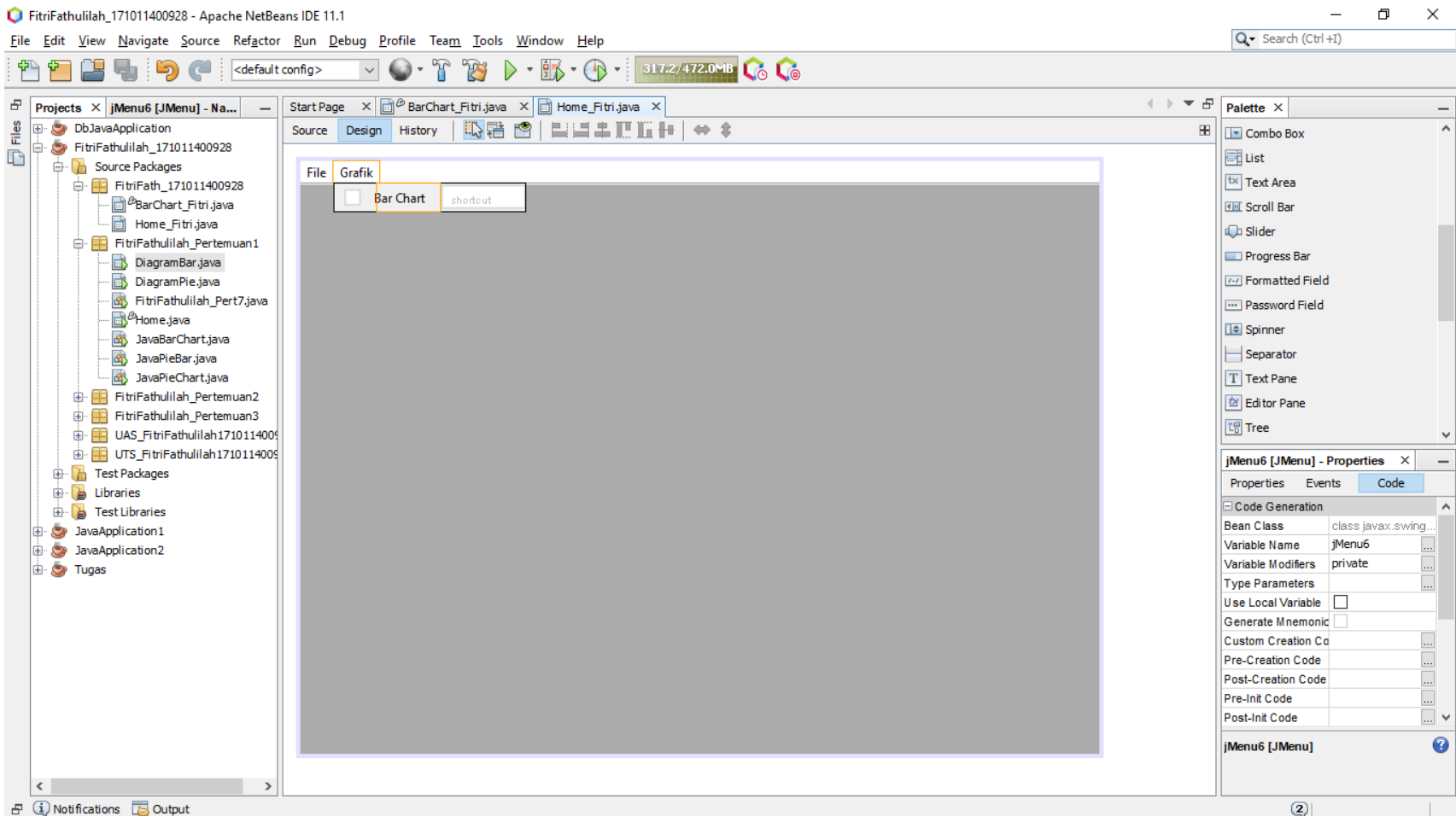
FITRI FATHULILAH

171011400928

06TPLE018



Buatlah JFrameForm dengan nama “Home_Nama”,
dan desain sebagai berikut



Buatlah new JFrame Form dengan nama “BarChart_Nama”

New JFrame Form

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

Class Name:

Project:

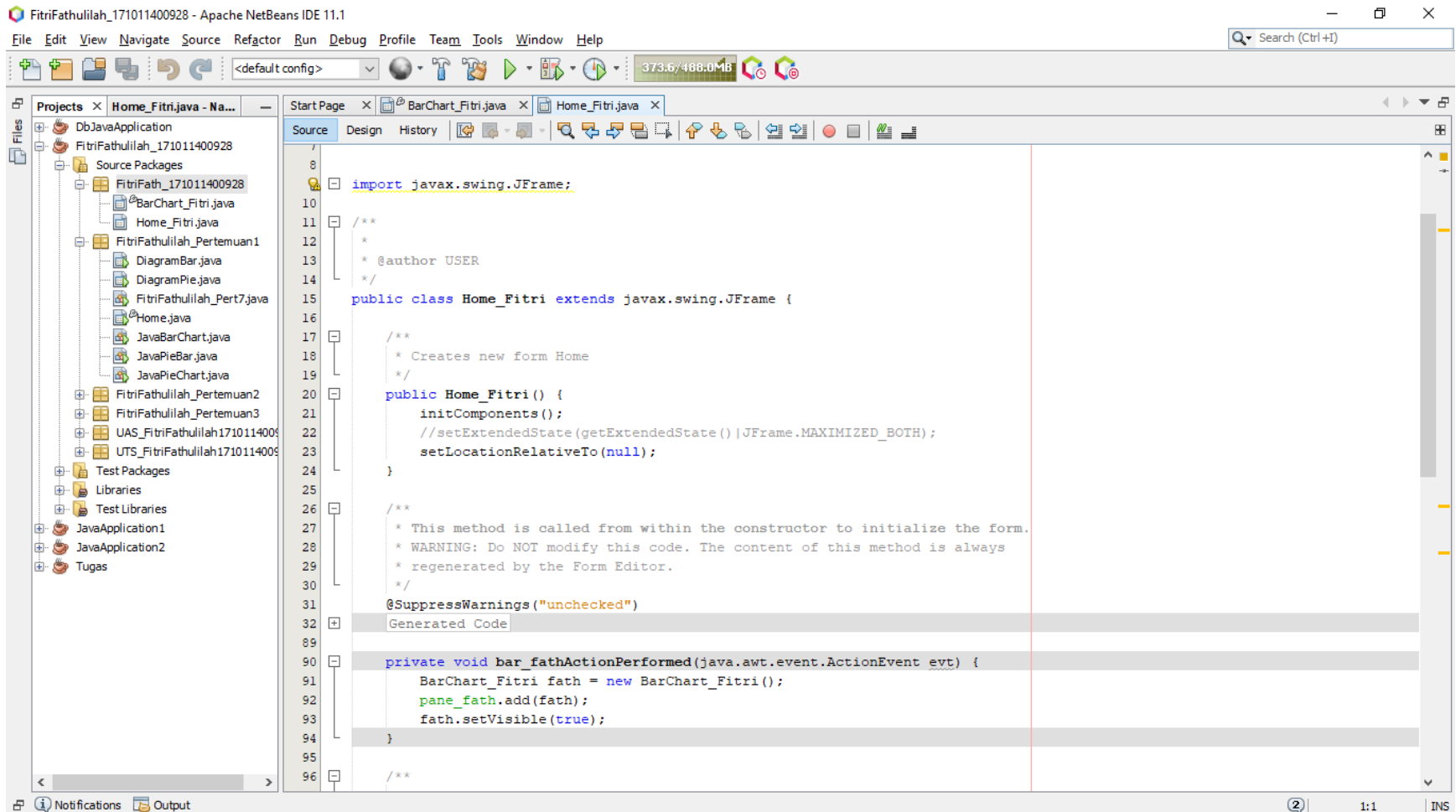
Location:

Package:

Created File:

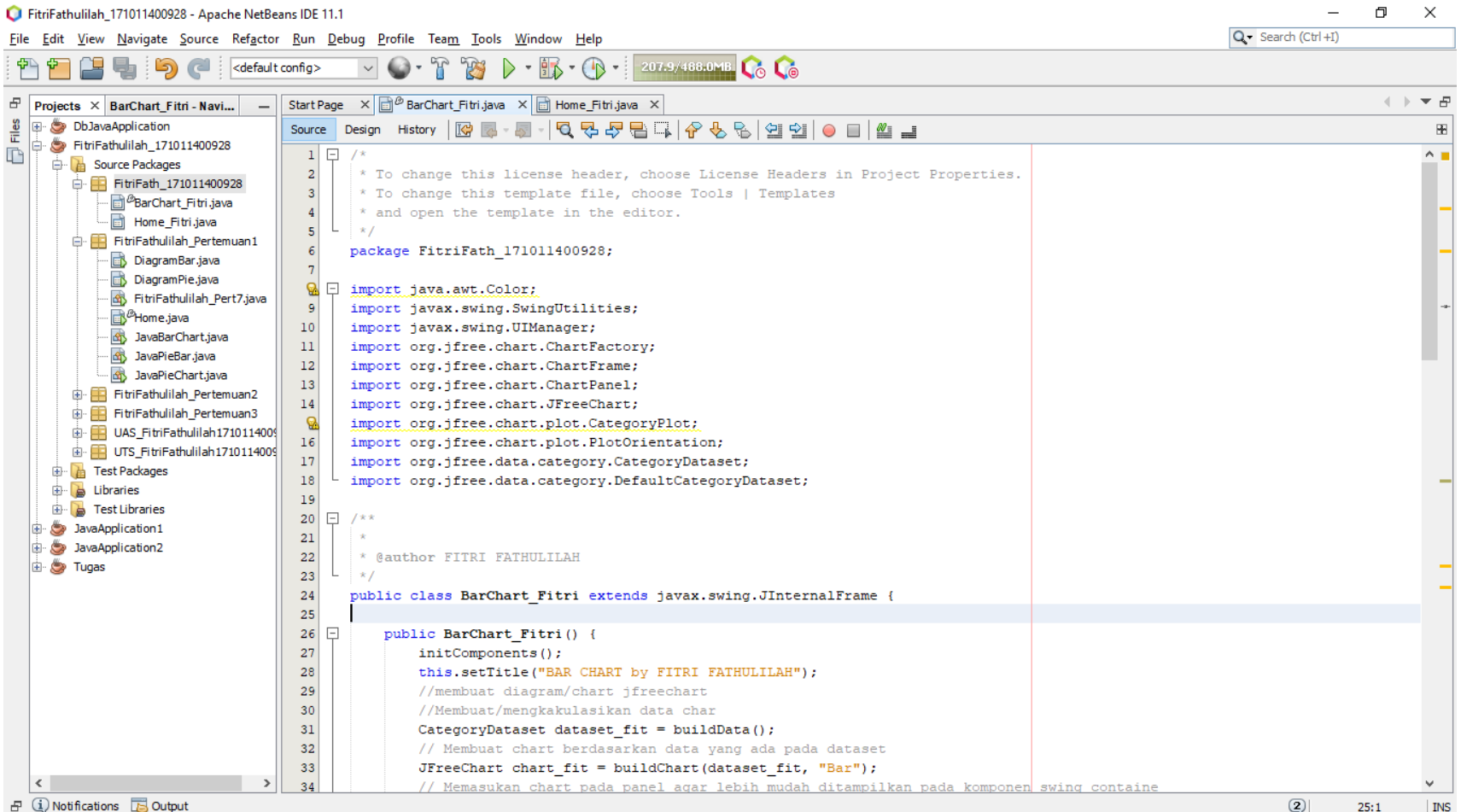
< Back Next > **Finish** Cancel Help

Pada class Home_Nama, masukkan source dibawah ini pada menu Bar Chart



```
FitriFathulillah_171011400928 - Apache NetBeans IDE 11.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
<default config> 373.6/488.0 MB
Projects Home_Fitri.java - Na...
Start Page BarChart_Fitri.java Home_Fitri.java
Source Design History
8
9
10 import javax.swing.JFrame;
11
12 /**
13  * @author USER
14  */
15 public class Home_Fitri extends javax.swing.JFrame {
16
17     /**
18      * Creates new form Home
19      */
20     public Home_Fitri() {
21         initComponents();
22         //setExtendedState(getExtendedState() | JFrame.MAXIMIZED_BOTH);
23         setLocationRelativeTo(null);
24     }
25
26     /**
27      * This method is called from within the constructor to initialize the form.
28      * WARNING: Do NOT modify this code. The content of this method is always
29      * regenerated by the Form Editor.
30      */
31     @SuppressWarnings("unchecked")
32     Generated Code
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89
90 private void bar_fathActionPerformed(java.awt.event.ActionEvent evt) {
91     BarChart_Fitri fath = new BarChart_Fitri();
92     pane_fath.add(fath);
93     fath.setVisible(true);
94 }
95
96 /**
```

Pada class BarChart_Nama, masukkan struktur diagram bar, dan dapat dilihat sebagai berikut



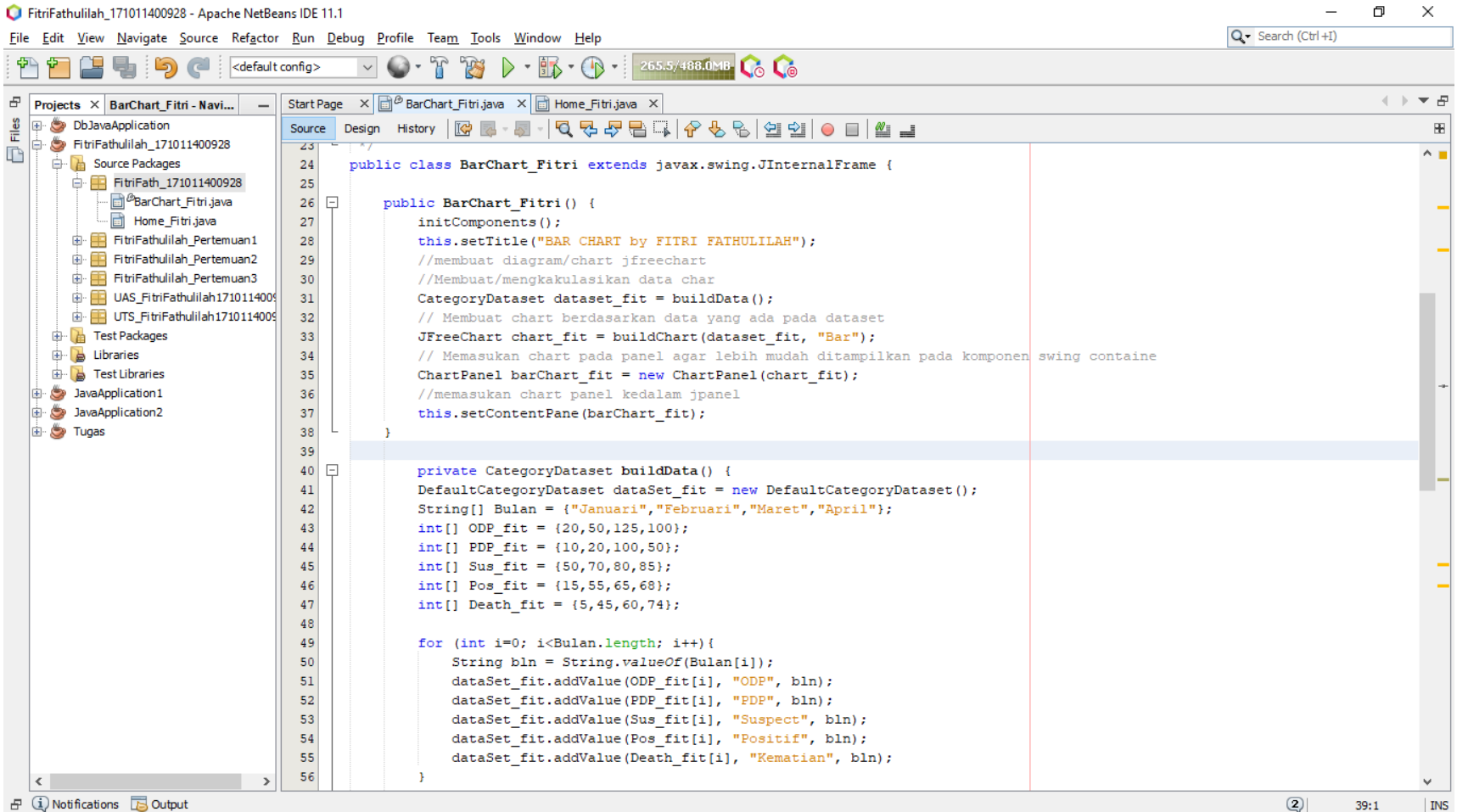
```
FitriFathulilah_171011400928 - Apache NetBeans IDE 11.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+H)
207.9/488.0MB
Projects x BarChart_Fitri - Navig...
Start Page x BarChart_Fitri.java x Home_Fitri.java x
Source Design History
1 /*
2  * To change this license header, choose License Headers in Project Properties.
3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6 package FitriFath_171011400928;
7
8
9 import java.awt.Color;
10 import javax.swing.SwingUtilities;
11 import javax.swing.UIManager;
12 import org.jfree.chart.ChartFactory;
13 import org.jfree.chart.ChartFrame;
14 import org.jfree.chart.ChartPanel;
15 import org.jfree.chart.JFreeChart;
16 import org.jfree.chart.plot.CategoryPlot;
17 import org.jfree.chart.plot.PlotOrientation;
18 import org.jfree.data.category.CategoryDataset;
19 import org.jfree.data.category.DefaultCategoryDataset;
20
21 /**
22  *
23  * @author FITRI FATHULILAH
24  */
25
26 public class BarChart_Fitri extends javax.swing.JInternalFrame {
27
28     public BarChart_Fitri() {
29         initComponents();
30         this.setTitle("BAR CHART by FITRI FATHULILAH");
31         //membuat diagram/chart jfreechart
32         //Membuat/mengkakulasikan data char
33         CategoryDataset dataset_fit = buildData();
34         // Membuat chart berdasarkan data yang ada pada dataset
35         JFreeChart chart_fit = buildChart(dataset_fit, "Bar");
36         // Memasukan chart pada panel agar lebih mudah ditampilkan pada komponen swing containe
```

Method untuk Set nilai yang ingin ditampilkan pada grafik

```
private CategoryDataset buildData() {
    DefaultCategoryDataset dataSet_fit = new DefaultCategoryDataset();
    String[] Bulan = {"Januari","Februari","Maret","April"};
    int[] ODP_fit = {20,50,125,100};
    int[] PDP_fit = {10,20,100,50};
    int[] Sus_fit = {50,70,80,85};
    int[] Pos_fit = {15,55,65,68};
    int[] Death_fit = {5,45,60,74};

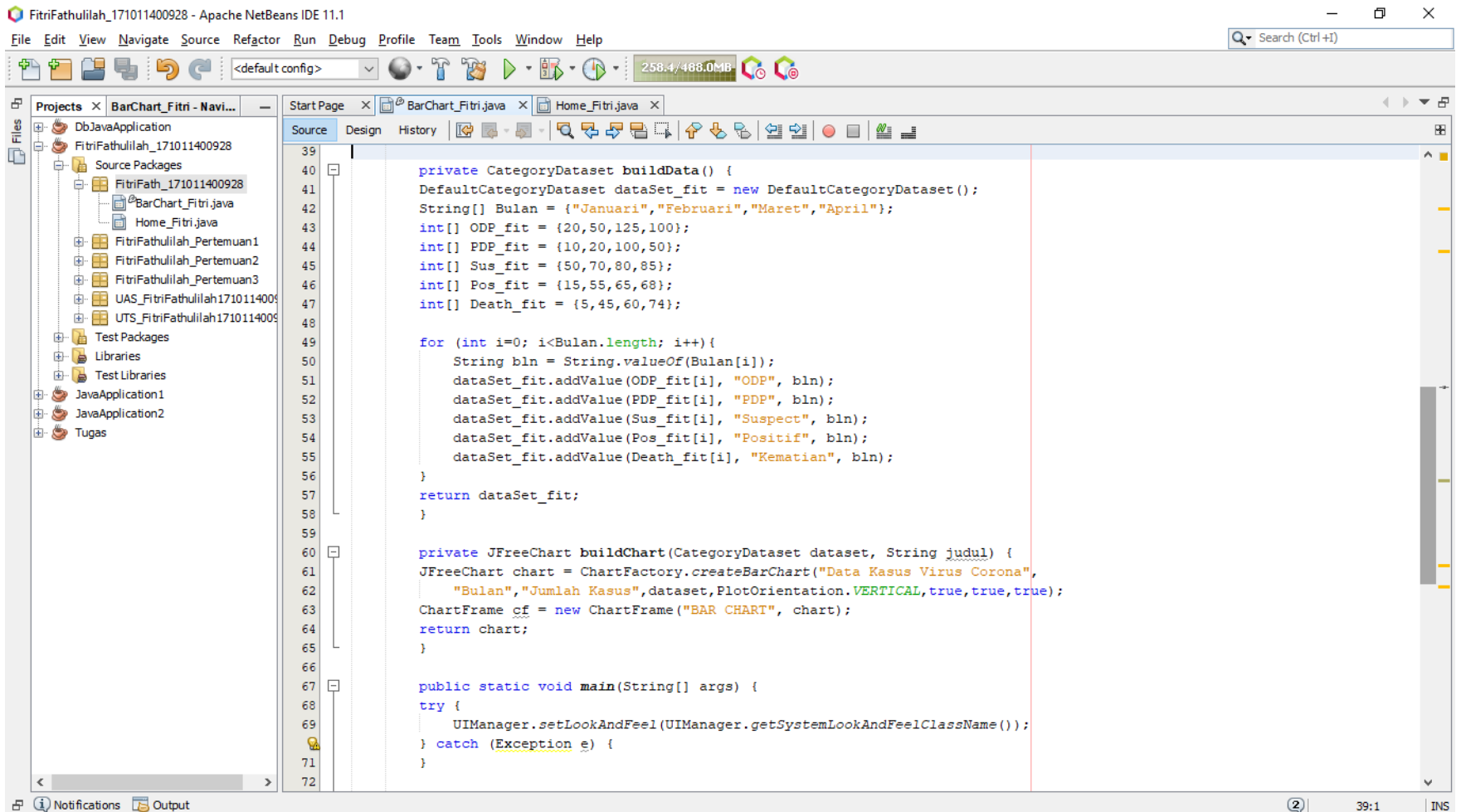
    for (int i=0; i<Bulan.length; i++){
        String bln = String.valueOf(Bulan[i]);
        dataSet_fit.addValue(ODP_fit[i], "ODP", bln);
        dataSet_fit.addValue(PDP_fit[i], "PDP", bln);
        dataSet_fit.addValue(Sus_fit[i], "Suspect", bln);
        dataSet_fit.addValue(Pos_fit[i], "Positif", bln);
        dataSet_fit.addValue(Death_fit[i], "Kematian", bln);
    }
    return dataSet_fit;
}
```

Dapat dilihat sebagai berikut



```
23
24
25 public class BarChart_Fitri extends javax.swing.JInternalFrame {
26
27     public BarChart_Fitri() {
28         initComponents();
29         this.setTitle("BAR CHART by FITRI FATHULILAH");
30         //membuat diagram/chart jfreechart
31         //Membuat/mengkakulasikan data char
32         CategoryDataset dataset_fit = buildData();
33         // Membuat chart berdasarkan data yang ada pada dataset
34         JFreeChart chart_fit = buildChart(dataset_fit, "Bar");
35         // Memasukan chart pada panel agar lebih mudah ditampilkan pada komponen swing containe
36         ChartPanel barChart_fit = new ChartPanel(chart_fit);
37         //memasukan chart panel kedalam jpanel
38         this.setContentPane(barChart_fit);
39     }
40
41     private CategoryDataset buildData() {
42         DefaultCategoryDataset dataSet_fit = new DefaultCategoryDataset();
43         String[] Bulan = {"Januari", "Februari", "Maret", "April"};
44         int[] ODP_fit = {20, 50, 125, 100};
45         int[] PDP_fit = {10, 20, 100, 50};
46         int[] Sus_fit = {50, 70, 80, 85};
47         int[] Pos_fit = {15, 55, 65, 68};
48         int[] Death_fit = {5, 45, 60, 74};
49
50         for (int i=0; i<Bulan.length; i++){
51             String bln = String.valueOf(Bulan[i]);
52             dataSet_fit.addValue(ODP_fit[i], "ODP", bln);
53             dataSet_fit.addValue(PDP_fit[i], "PDP", bln);
54             dataSet_fit.addValue(Sus_fit[i], "Suspect", bln);
55             dataSet_fit.addValue(Pos_fit[i], "Positif", bln);
56             dataSet_fit.addValue(Death_fit[i], "Kematian", bln);
57         }
58     }
59 }
```

Dapat dilihat sebagai berikut



```
39
40
41     private CategoryDataset buildData() {
42         DefaultCategoryDataset dataSet_fit = new DefaultCategoryDataset();
43         String[] Bulan = {"Januari", "Februari", "Maret", "April"};
44         int[] ODP_fit = {20, 50, 125, 100};
45         int[] PDP_fit = {10, 20, 100, 50};
46         int[] Sus_fit = {50, 70, 80, 85};
47         int[] Pos_fit = {15, 55, 65, 68};
48         int[] Death_fit = {5, 45, 60, 74};
49
50         for (int i=0; i<Bulan.length; i++){
51             String bln = String.valueOf(Bulan[i]);
52             dataSet_fit.addValue(ODP_fit[i], "ODP", bln);
53             dataSet_fit.addValue(PDP_fit[i], "PDP", bln);
54             dataSet_fit.addValue(Sus_fit[i], "Suspect", bln);
55             dataSet_fit.addValue(Pos_fit[i], "Positif", bln);
56             dataSet_fit.addValue(Death_fit[i], "Kematian", bln);
57         }
58         return dataSet_fit;
59     }
60
61     private JFreeChart buildChart(CategoryDataset dataset, String judul) {
62         JFreeChart chart = ChartFactory.createBarChart("Data Kasus Virus Corona",
63             "Bulan", "Jumlah Kasus", dataset, PlotOrientation.VERTICAL, true, true, true);
64         ChartFrame cf = new ChartFrame("BAR CHART", chart);
65         return chart;
66     }
67
68     public static void main(String[] args) {
69         try {
70             UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassName());
71         } catch (Exception e) {
72
73         }
74     }
75 }
```

Notifications Output

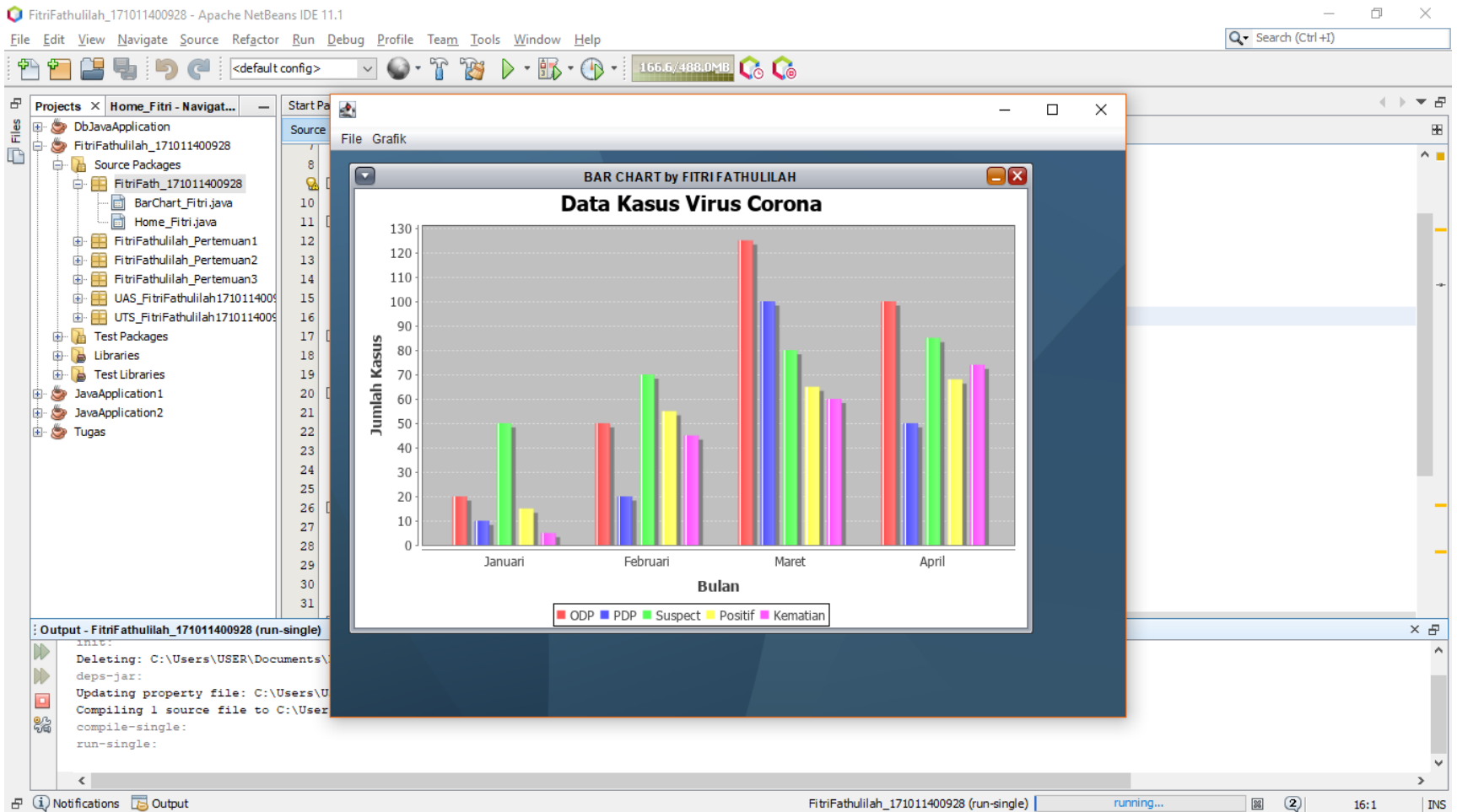
2 39:1 INS

Running Program

The screenshot displays the Apache NetBeans IDE 11.1 interface. The main editor window shows a dark blue background with a 'Bar Chart' label. The left sidebar shows the project structure for 'FitriFathulillah_171011400928', including source packages and files like 'BarChart_Fitri.java' and 'Home_Fitri.java'. The bottom output window shows the execution log for 'FitriFathulillah_171011400928 (run-single)'. The status bar at the bottom indicates the program is running.

```
init:  
Deleting: C:\Users\USER\Documents\  
deps-jar:  
Updating property file: C:\Users\U  
Compiling 1 source file to C:\User  
compile-single:  
run-single:
```

Hasil program ketika Bar Chart di click



Tampilan Internal Frame Grafik Bar

