## 1-لطباعه نص:

```
History
                                                                   w
Source
 1
 2
      package javaapplication8;
 3
 5
      public class JavaApplication8 {
 6
 7
 8
   Ţ
          public static void main(String[] args) {
 9
             System.out.println("Emam");
10
             كود طباعة نص في الواجهة غير الرسومية//
11
12
          }
13
🚫 javaapplication8.JavaApplication8 》 🌗 main 📎
Output - JavaApplication8 (run) X
     run:
     Emam
     BUILD SUCCESSFUL (total time: 0 seconds)
```

```
JavaApplication8.java ×
               Source
       History
 1
 2
      package javaapplication8;
 3
 5
      public class JavaApplication8 {
 6
 7
 8
          public static void main(String[] args) {
 9
             System.out.println("Emam"+" "+2002);
10
             ستخدام علامة بلص للربط بين توعين مختلفين من البيانات مثلا كلمة امام و رقم//
11
12
          }
13
🚫 javaapplication8.JavaApplication8 》 🍈 main 🗦
Output - JavaApplication8 (run) X
     run:
     Emam 2002
     BUILD SUCCESSFUL (total time: 0 seconds)
```

#### 3-طباعة قيمة متغير

```
History
                Source
  1
      package javaapplication8;
  2
  3
  4
  5
      public class JavaApplication8 {
  6
  7
    口
           public static void main(String[] args) {
              int x=2002;
              System.out.println("Emam"+" "+ x );
 10
 11
             كود الاعلان عن متغير وطباعة قيمتة//
 12
              }
 13
🚫 javaapplication8.JavaApplication8 》 🍈 main 📎
Output - JavaApplication8 (run) X
     run:
     Emam 2002
     BUILD SUCCESSFUL (total time: 0 seconds)
```

#### 4-برنامج لجمع عددين

```
선삼삼님과 상상은 회의
Source
        History
                 K
 1
 2
      package javaapplication8;
 3
 4
 5
      public class JavaApplication8 {
 6
 7
 8
           public static void main(String[] args) {
 9
              int num1, num2, result;
10
              num1=10; num2=20;
              result=num1+num2;
11
              System. out.println(result);
12
13
              کود جمع عددین //
              ممكن قسمة أو ضرب أو طرح بس قير المعامل الخاص بالجمع//
14
15
               }
16
😭 javaapplication8.JavaApplication8 📎 🌘 main 📎
Output - JavaApplication8 (run) X
     runt
      BUILD SUCCESSFUL (total time: 0 seconds)
```

#### 5-كود طباعه الوقت والتاريخ

```
History
Source
 1
 2
      package javaapplication8;
 3
      زودتا سطر ستا//
 4
   import java.util.Date;
 5
      عنا فتحنا مكتبة عشان تاخد الدوال منها//
 6
      public class JavaApplication8 {
 7
 8
 9
          public static void main(String[] args) {
   10
           Date today = new Date();
11
              System.out.println(today.toString());
             كود لطباعة الوقت و التاريخ//
12
13
14
🚫 javaapplication8.JavaApplication8 》 🐠 main 》
Output - JavaApplication8 (run)
     run:
     Wed Dec 06 01:51:28 EET 2023
     BUILD SUCCESSFUL (total time: 1 second)
```

# 6-كود طباعه أكثر من ناتج في سطر واحد

```
Source
       History
      package javaapplication8;
 1
 2
 3
      public class JavaApplication8 {
 4
 5
         public static void main(String[] args) {
   6
             int a = 10, b = 20, c = 30, d = 40;
 7
             System.out.println((b - c) + \sqrt{n} + (a + b) + \sqrt{n} + (c / a) + \sqrt{n} + (b * a));
             كود طباعة كل النتاشج في سطر كودي واحد//
 9
          }
10
     }
11
🚵 javaapplication8.JavaApplication8 》 🍈 main 📎
Output - JavaApplication8 (run)
     run:
     -10
     30
     200
     BUILD SUCCESSFUL (total time: 0 seconds)
```

## 7- جمله الشرط if

```
History
Source
1
      package javaapplication8;
 2
      public class JavaApplication8 {
 3
 4
5 🖃
          public static void main(String[] args) {
 6
             int x=50;
              if (x>=50) {System.out.println("ناجع");}
 7
              else {System.out.println("راسب");}
 8
 9
              }
10
          }
11
utput - JavaApplication8 (run) X
     run:
     ناجح
     BUILD SUCCESSFUL (total time: 0 seconds)
```

#### 8- كود لطباعه تقدير الطالب بأستخدام if else

```
2.9.9 ₽ ₽ ₽ ₽ ₽ ₽
       History
Source
 1
      package javaapplication8;
 2
 3
      public class JavaApplication8 {
 4
 5
   Ξ
         public static void main(String[] args) {
 6
           int x=70;
 7
             if ( x>=85) {System.out.println("افعناز");}
 8
             else if (x>=75){System.out.println("اربيه جها");}
             else if (x>=65) {System.out.println("____");}
 9
             else if ( x>=50) {System.out.println("المقبول");}
10
             else {System.out.println("(");}
11
12
13
Output - JavaApplication8 (run)
     munc
     BUILD SUCCESSFUL (total time: 0 seconds)
```

#### 9 - كود لطباعه تقدير الطالب بأستخدام switch case

```
    ∆ JavaApplication8.java ×

                Source
        History
 1
      package javaapplication8;
 2
      public class JavaApplication8 {
 3
 4
          public static void main(String[] args) {
 5
   6
 7
              int x = 70;
 8
       switch(x) {
 9
      case 90 :
          System.out.println("; ");
10
11
      break;
      case 80:
12
         System.out.println("| ; );
 13
      break;
14
      case 70:
15
 16
      System.out.println("___") ;
 17
      break;
18
      case 50:
      System.out.println(" ") ;
19
20
      break;
21
      default:
      System.out.println(" ____ );
22
23
      }
24
25
iavaapplication8.JavaApplication8
Output - JavaApplication8 (run) X
run:
     جيد
     BUILD SUCCESSFUL (total time: 0 seconds)
8
```

#### 10- كود الاله الحاسبة بمدخلات من المستخدم

```
☑ ☑ · □ · □ □ □ □ □ □ □ □ □
Source
       History
 1
      package javaapplication8;
 2
      في عنا فكتبة أتفتحت//
 3
   import java.util.Scanner;
 4
      عنا سطر زبادة//
 5
      public class JavaApplication8 {
 6
          public static void main(String[] args) {
 7
              Scanner input = new Scanner(System.in);
 8
              System.out.println("please insert the first number ");
 9
              int n1 = input.nextInt();
              System.out.println("please insert the second number ");
10
              int n2 = input.nextInt();
11
12
              System.out.println("please insert the arithmatic operation ");
13
              String op = input.next();
              int x;
14
              if (op.equals("+")) {x = n1 + n2;}
              else if (op.equals("-")) {x = n1 - n2;}
16
              else if (op.equals("*")) {x = n1 * n2;}
17
              else {x = n1 / n2;}
18
19
              System. out.println(x);
20
21
Output - JavaApplication8 (run)
     runc
     please insert the first number
     please insert the second number
     please insert the arithmatic operation
     BUILD SUCCESSFUL (total time: 23 seconds)
```

```
History
Source
1
    package javaapplication8;
2
 3
    public class JavaApplication8 {
  F
4
       public static void main(String[] args) {
5
6
          for (int i = 1; i <= 10; i++) {
7
             System.out.println(i);
8
          1
9
       1
10
Output - JavaApplication8 (run)
   run:
   1
   2
   9
```

```
Source
        History
      package javaapplication8;
 1
 2
      public class JavaApplication8 {
 3
          public static void main(String[] args) {
 4
 5
 6
              int i = 1;
 7
              while (i <= 10) {
 8
                  System.out.println(i);
 9
                  i++;
10
11
12
      }
Output - JavaApplication8 (run) X
\square
     run:
     3
     5
     9
     10
     BUILD SUCCESSFUL (total time: 0 seconds)
```

```
History
Source
 1
     package javaapplication8;
 2
 3
     public class JavaApplication8 {
 4
         public static void main(String[] args) {
 5
 6
            int i = 1;
 7
            do {
                System.out.println(i);
 9
                i++;
             } while (i <= 10);
10
11
12
Output - JavaApplication8 (run)
    run:
    2
    9
    10
    BUILD SUCCESSFUL (total time: 0 seconds)
```

#### 14- كود طباعه الارقام الزوجية فقط

```
History
Source
 1
      package javaapplication8;
 2
 3
      public class JavaApplication8 {
         public static void main(String[] args) {
 5
             طباعة الأعداد الزوجية //
 6
             for (int i = 0; i <= 10; i += 2) {
                 System.out.println(i);
             }}}
🚫 javaapplication8.JavaApplication8 🔪 🌖 main 📎
Output - JavaApplication8 (run) X
     run:
     BUILD SUCCESSFUL (total time: 0 seconds)
```

#### 15- كود طباعة الارقام الفردية فقط

```
Source
      History
 1
     package javaapplication8;
 2
 3
     public class JavaApplication8 {
        public static void main(String[] args) {
 4
     طباعة الأعداد الفردية //
 5
 6
           for (int i = 1; i <= 10; i += 2) {
 7
               System.out.println(i);
 8
            }
 9
10
Output - JavaApplication8 (run)
    run:
    3
    5
    BUILD SUCCESSFUL (total time: 2 seconds)
```

## 16- طباعه الارقام الزوجية فقط بأستخدام if

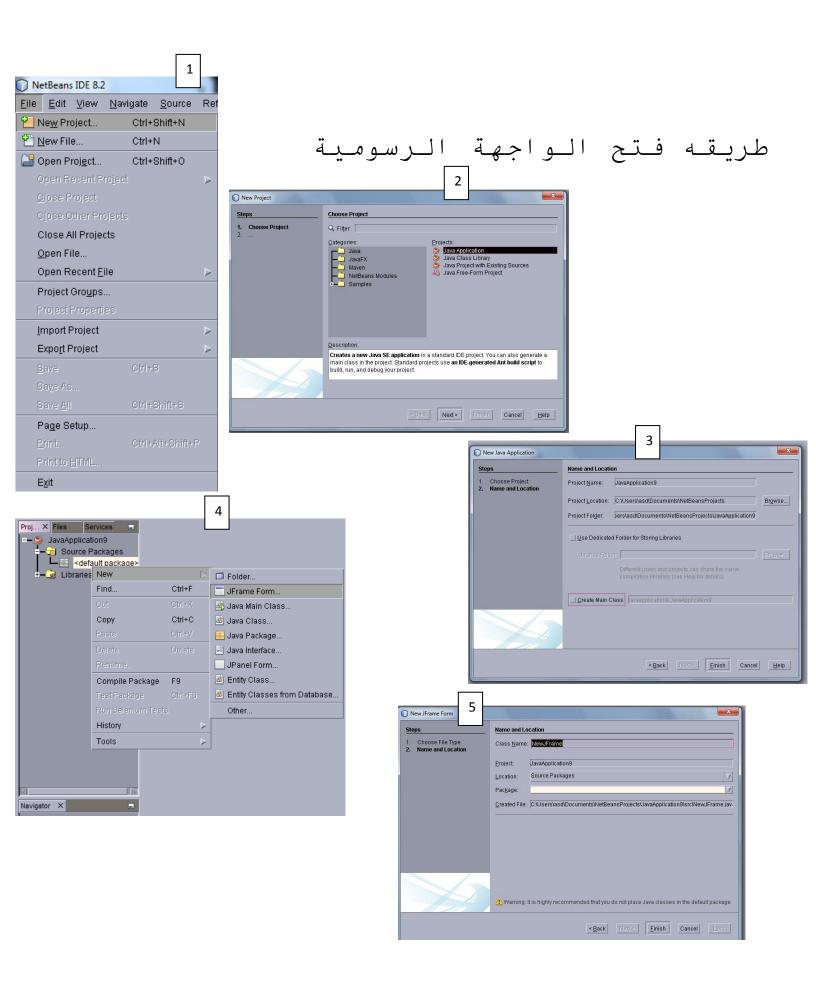
```
Source
       History
 1
     package javaapplication8;
 2
 3
     public class JavaApplication8 {
 4
         public static void main(String[] args) {
            طباعة الأعداد الزوجية //
 5
            for (int i = 1; i <= 10; i++) {
 6
 7
                if (i % 2 == 0) {
 8
                   System.out.println(i);
 9
                1111
Output - JavaApplication8 (run)
\gg
    run:
    2
     6
     B.
8
    BUILD SUCCESSFUL (total time: 0 seconds)
```

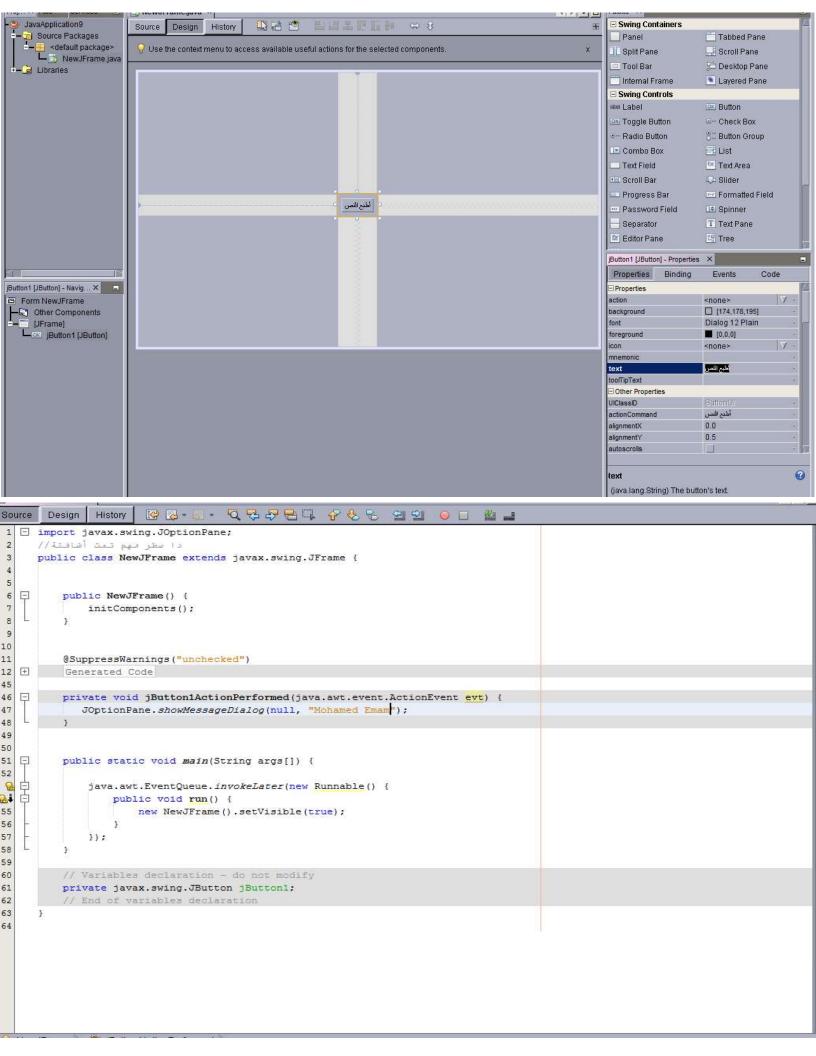
# 17 – كود طباعة الارقام الفردية بأستخدام if

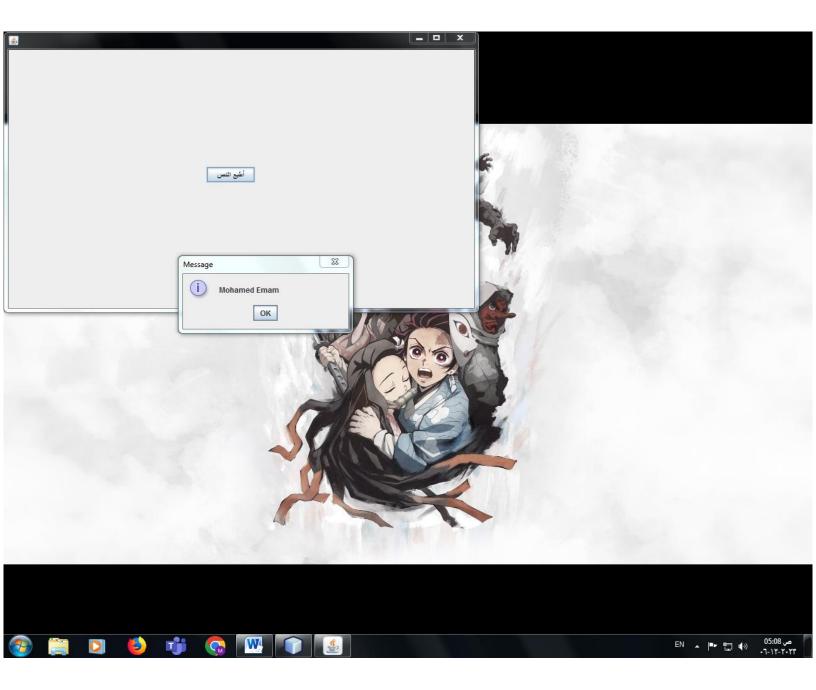
```
Source
        History
                                Q 🗫 🗗 🖺 🖫
       package javaapplication8;
 1
 2
 3
       public class JavaApplication8 {
           public static void main(String[] args) {
                طباعة الأعداد القردية //
 5
                for (int i = 1; i <= 10; i++) {
 6
 7
                    if (i % 2 != 0) {
 8
                         System. out. println(i);
                    }}}
🚫 javaapplication8.JavaApplication8 》 🍈 main 🔊
Output - JavaApplication8 (run)
     run:
     BUILD SUCCESSFUL (total time: 0 seconds)
```

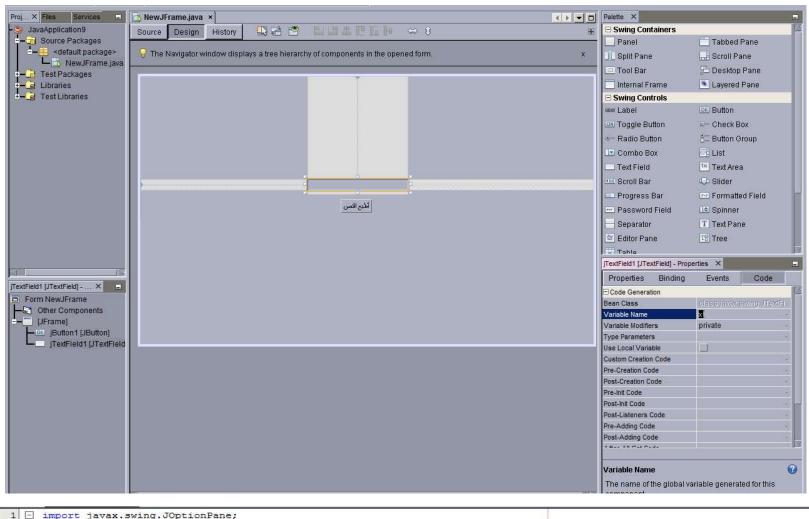
```
History
Source
 1
      package javaapplication8;
 2
 3
      public class JavaApplication8 {
 4
          public static void main(String[] args) {
 5
 6
              for (int i = 1; i <= 10; i++) {
 7
                  if (i == 3) {
                      continue;
 9
10
                  System.out.println(i);
11
12
13
Output - JavaApplication8 (run) X
     run:
     9
     BUILD SUCCESSFUL (total time: 0 seconds)
```

# بدایة أول سكشن واجهة رسومیة

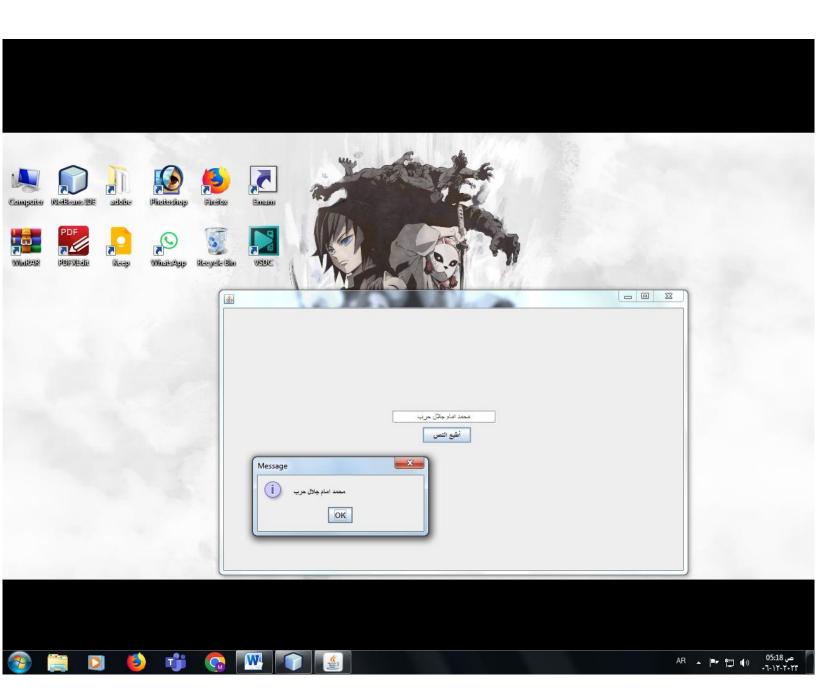


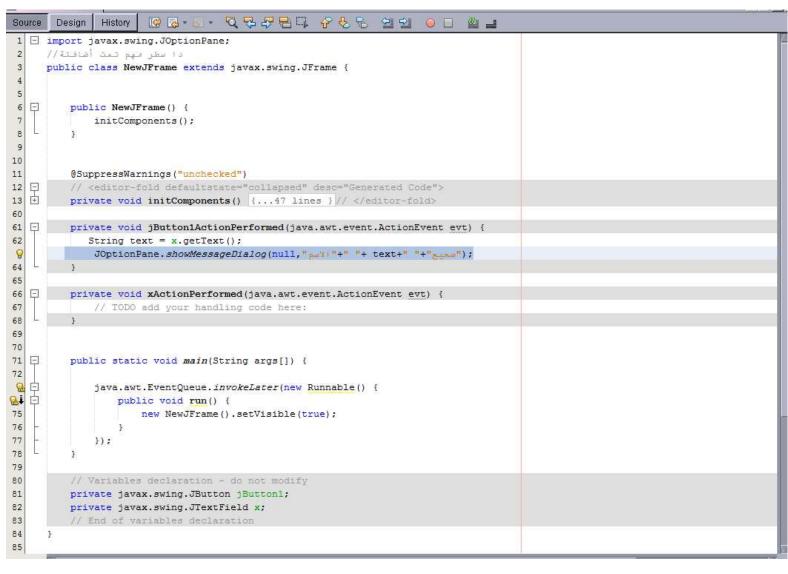


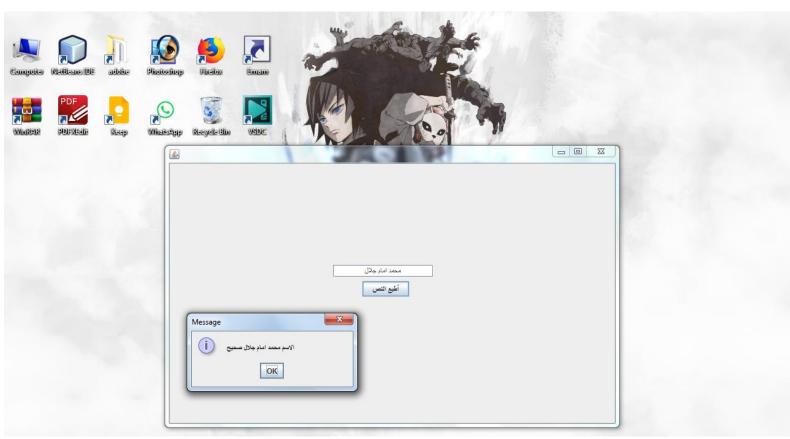




```
import javax.swing.JOptionPane;
      دا سطر مهم تعت أضافتة//
      public class NewJFrame extends javax.swing.JFrame {
5
          public NewJFrame() {
 6
   initComponents();
8
9
10
11
          @SuppressWarnings("unchecked")
   巨
          // <editor-fold defaultstate="collapsed" desc="Generated Code">
12
   +
13
          private void initComponents() {...47 lines } // </editor-fold>
60
61
   [-]
          private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
             String text = x.getText();
63
              JOptionPane.showMessageDialog(null, text);
64
65
66
   口
          private void xActionPerformed(java.awt.event.ActionEvent evt) {
67
              // TODO add your handling code here:
68
69
70
71
   巨
          public static void main(String args[]) {
72
   串
              java.awt.EventQueue.invokeLater(new Runnable() {
₽.
                 public void run() {
                      new NewJFrame().setVisible(true);
75
76
                  1
77
              1);
78
79
          // Variables declaration - do not modify
80
          private javax.swing.JButton jButton1;
81
82
          private javax.swing.JTextField x;
83
          // End of variables declaration
84
85
```

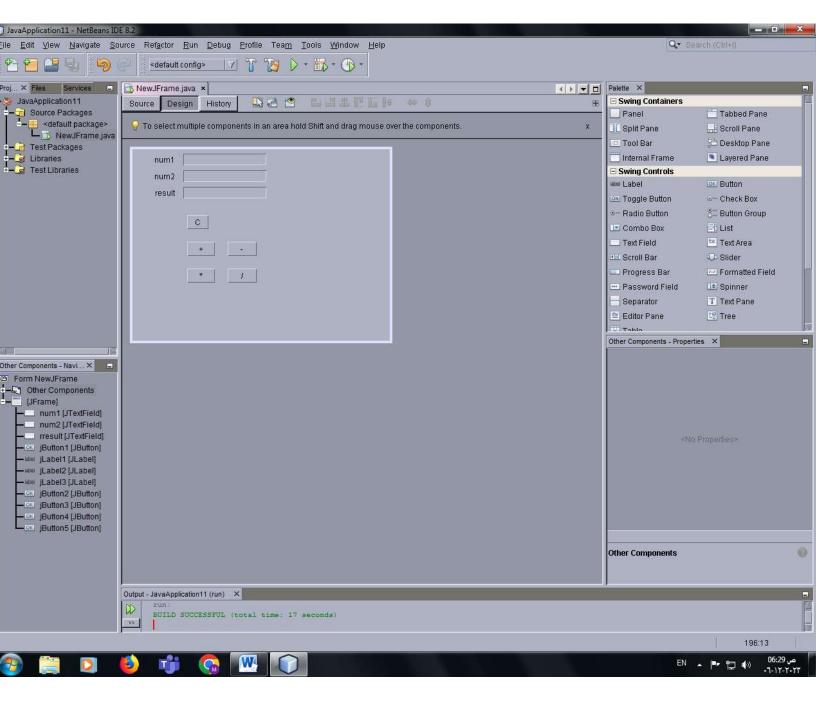






.....كود الالة الحاسبة الكاملة.....

# 1) قم بعمل الواجهة وخصصها من حيث الاسم و التنسيق كما تريد



## 2) أكتب الكود المخصص لكل زر مع تغير المعامل بما يتناسب +-\*/

```
154
           private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
       double n1 = Double.parseDouble(num1.getText());
155
       double n2 = Double.parseDouble(num2.getText());
156
157
       double r=n1+n2;
158
       rresult.setText(" "+r);
               // TODO add your handling code here:
159
160
161
           private void num1ActionPerformed(java.awt.event.ActionEvent evt) {...3 lines }
162
165
           private void num2ActionPerformed(java.awt.event.ActionEvent evt) {...3 lines }
166
169
170
           private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
171
      num1.setText(" ");
       num2.setText(" ");
172
173
       rresult.setText(" ");
               // TODO add your handling code here:
174
175
176
           private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
177
       double n1 = Double.parseDouble(num1.getText());
178
       double n2 = Double.parseDouble(num2.getText());
179
       double r=n1-n2;
180
181
       rresult.setText(" "+r);
               // TODO add your handling code here:
182
183
184
185
         private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
       double n1 = Double.parseDouble(num1.getText());
186
       double n2 = Double.parseDouble(num2.getText());
187
188
       double r=n1/n2;
189
       rresult.setText(" "+r);
190
               // TODO add your handling code here:
191
192
193
           private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
194
       double n1 = Double.parseDouble(num1.getText());
195
       double n2 = Double.parseDouble(num2.getText());
       double r=n1*n2;
197
       rresult.setText(" "+r);
198
               // TODO add your handling code here:
```

