



AJP Microproject - Adavnced java project

Computer science and engineering (Shivaji University)



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A PROJECT ON
Quiz Application
MICRO PROJECT

Submitted by

Sr.No	RollNo. (Sem-V)	Full Name of Students	Enrollment No.	Seat No. (Sem-V)
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Subject Name and Code: **AJP (22517)**

Academic Year: **2022-23**

Course Name: **CO5I**

Semester: **Fifth**

Under the Guidance of

Prof. Ashwini Dhage

In

3 Years of Diploma Programme in Engineering & Technology of Maharashtra State Board of
Technical Education,

ISO 9001:2008 (ISO/IEC-27001:2013)

SHIVAJIRAO S. JONDHLE POLYTECHNIC, ASANGAON.



MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

CERTIFICATE

This is to certify that **Ms. Harshali Rakesh Hajare** Roll No. **33** of **Fifth Semester** of **Computer Engineering Diploma Programe in Engineering & Technology** at **Shivajirao S. Jondhle Polytechnic Asangaon, Shahapur-421601** has completed the **Micro Project** Satisfactorily in Subject–**Advanced JAVA Programming (22517)**. In the academic year **2022-2023** as prescribed curriculum of **I Scheme**.

Place: **Asangaon**

Enrollment No: **2109350231**

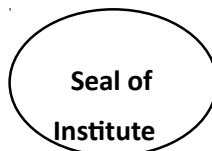
Date: / / **2022**

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Abstract :

The Calculator is an application to calculate the values of two numbers and helps to solve numerical equations. The system would provide basic equation like add/sub/div/multiply the numerical equations, and manage check in specifications for the systems based on the user's input of need.

It allows the user to Calculate the numbers and helps to solve the sums and mathematical equations. This Software allows addition, subtraction, division and multiplication .It helps to calculate the values and also to solve the numerical sums/equations. The Implementation of this system will provide the options of (+,-, /,*) to calculate numerical sums.

Introduction :

The purpose of this program is to minimize the work of all humans, which is a massive challenge. Users working on the equation would be significantly shortened by using this Basic Calculator. The machine would be able to perform operations such as addition, subtraction, multiplication, division, finding the square root of a number, etc. Quick Calculator is user-friendly and easy to use.

Source Code :

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

public class QuizGame3 extends JFrame implements ActionListener {

    JLabel lblQuestion;
    JRadioButton rbOpt1, rbOpt2, rbOpt3, rbOpt4;
    ButtonGroup bg;
    JButton btnNext;
    int current = 0, score = 0;
    String[][] questions = {
        {"What is the superclass of all classes in Java?",
         "Object", "Class", "String", "Integer"},
        {"Which statement is used to define a class in Java?",
         "Class", "Method", "Inheritance", "Object"},
        {"What is the keyword used to create a subclass in Java?",
         "Extends", "Subclass", "Inheritance", "Parent"},
        {"Which keyword is used to overload a method in java?",
         "Overload", "Override", "Super", "This"},
        {"Which keyword is used to access the members of a class?",
         "This", "Super", "Overload", "Override"},
        {"What is the keyword used to refer to a member of the superclass?",
         "Super", "Parent", "Child", "Class"},
        {"Which keyword is used to create an interface in Java?",
         "Interface", "Class", "Extends", "Implements"},
        {"Which keyword is used to prevent a class from being inherited?",
         "Final", "Static", "Private", "Protected"},
        {"Which keyword is used to define a method that can be overridden?",
         "Virtual", "Abstract", "Final", "Override"},
        {"Which keyword is used to refer to the current class instance?",
         "This", "Super", "Child", "Parent"}
    };

    public QuizGame3() {
        super("Java Quiz Game");
        lblQuestion = new JLabel();
```

```

    rbOpt1 = new JRadioButton();
    rbOpt2 = new JRadioButton();
    rbOpt3 = new JRadioButton();
    rbOpt4 = new JRadioButton();
    bg = new ButtonGroup();
    btnNext = new JButton("Next Question");
    btnNext.addActionListener(this);
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setLayout(new FlowLayout(FlowLayout.CENTER, 10, 10));
    add(lblQuestion);
    add(rbOpt1);
    add(rbOpt2);
    add(rbOpt3);
    add(rbOpt4);
    add(btnNext);
    bg.add(rbOpt1);
    bg.add(rbOpt2);
    bg.add(rbOpt3);
    bg.add(rbOpt4);
    setSize(400, 400);
    setVisible(true);
    askQuestion();
}

public void askQuestion() {
    lblQuestion.setText(questions[current][0]);
    rbOpt1.setText(questions[current][1]);
    rbOpt2.setText(questions[current][2]);
    rbOpt3.setText(questions[current][3]);
    rbOpt4.setText(questions[current][4]);
}

public void actionPerformed(ActionEvent e) {
    if (rbOpt1.isSelected() || rbOpt2.isSelected() || rbOpt3.isSelected()
        || rbOpt4.isSelected()) {
        if (rbOpt1.isSelected()) {
            if (questions[current][1].equals("Object")
                || questions[current][1].equals("Class")
                || questions[current][1].equals("Extends")
                || questions[current][1].equals("Overload"))

```

```

        || questions[current][1].equals("This")
        || questions[current][1].equals("Super")
        || questions[current][1].equals("Interface")
        || questions[current][1].equals("Final")
        || questions[current][1].equals("Virtual")
        || questions[current][1].equals("Abstract")) {
    score++;
}
}
if (rbOpt2.isSelected()) {
    if (questions[current][2].equals("Object"))
        || questions[current][2].equals("Class")
        || questions[current][2].equals("Extends")
        || questions[current][2].equals("Overload")
        || questions[current][2].equals("This")
        || questions[current][2].equals("Super")
        || questions[current][2].equals("Interface")
        || questions[current][2].equals("Final")
        || questions[current][2].equals("Virtual")
        || questions[current][2].equals("Abstract")) {
    score++;
}
}
if (rbOpt3.isSelected()) {
    if (questions[current][3].equals("Object"))
        || questions[current][3].equals("Class")
        || questions[current][3].equals("Extends")
        || questions[current][3].equals("Overload")
        || questions[current][3].equals("This")
        || questions[current][3].equals("Super")
        || questions[current][3].equals("Interface")
        || questions[current][3].equals("Final")
        || questions[current][3].equals("Virtual")
        || questions[current][3].equals("Abstract")) {
    score++;
}
}
if (rbOpt4.isSelected()) {
    if (questions[current][4].equals("Object")
        || questions[current][4].equals("Class")

```

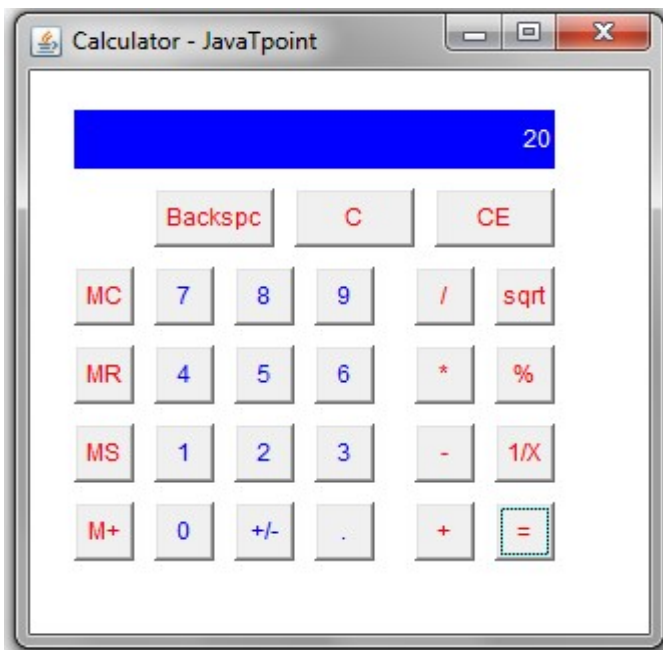
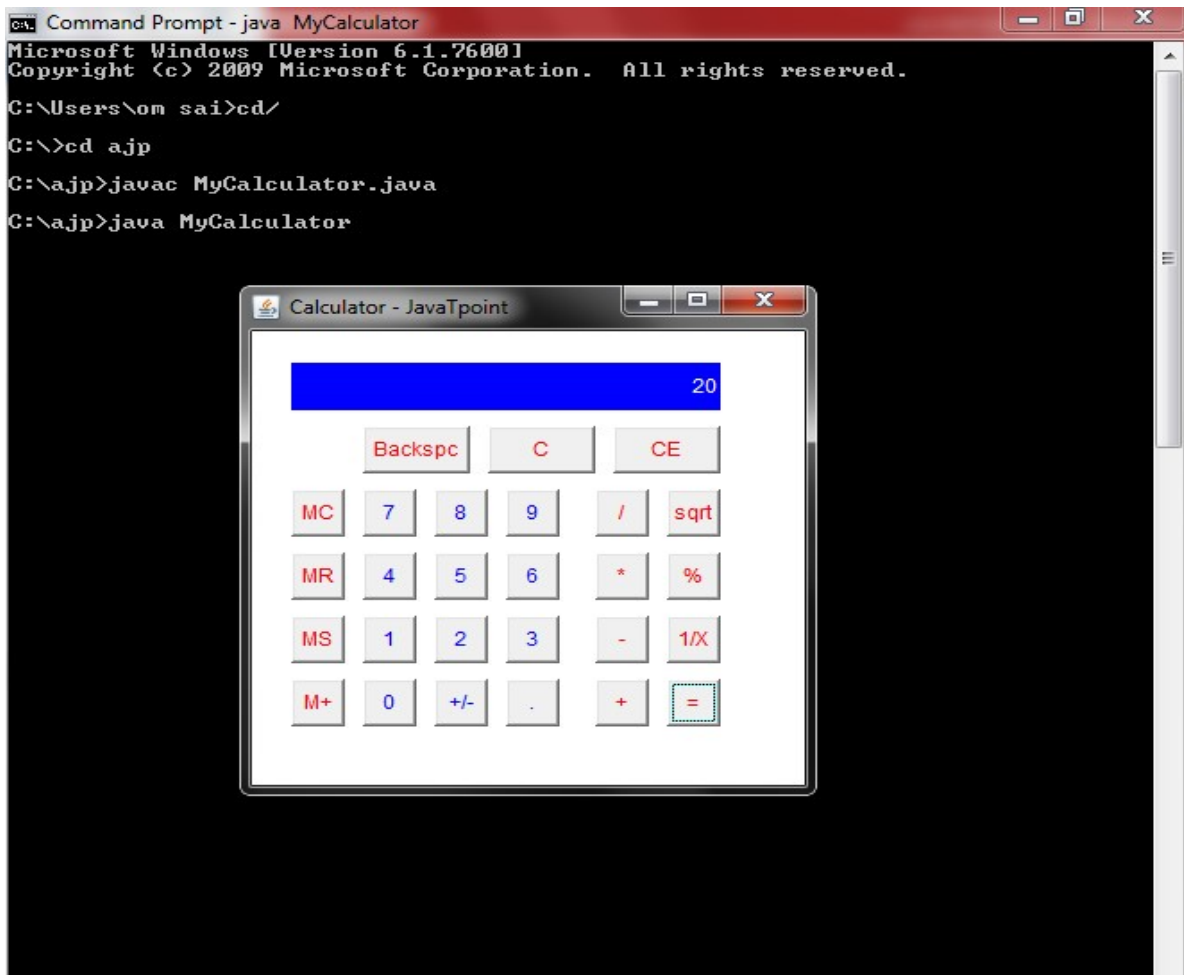
```

        || questions[current][4].equals("Extends")
        || questions[current][4].equals("Overload")
        || questions[current][4].equals("This")
        || questions[current][4].equals("Super")
        || questions[current][4].equals("Interface")
        || questions[current][4].equals("Final")
        || questions[current][4].equals("Virtual")
        || questions[current][4].equals("Abstract")) {
            score++;
        }
    }
    current++;
    if (current >= questions.length) {
        btnNext.setEnabled(false);
        JOptionPane.showMessageDialog(this,
            "Your final score is " + score);
        System.exit(0);
    } else {
        askQuestion();
    }
} else {
    JOptionPane.showMessageDialog(this,
        "Please select an option!");
}
}

public static void main(String[] args) {
    new QuizGame3();
}

```

Result / Output :



Future Scope_:

-  **Reduction of paperwork.**
-  **Human initiative or Manual Labour may be significantly minimized.**
-  **Large operations that are conducted manually can be completed in a matter of seconds.**

Software Requirements:

- **Notepad**
- **JAVA(jdk)**
- **Command Prompt**

Conclusion_:

The Calculator allows the user to Calculate the numbers and helps to solve the sums and mathematical equations. This Software allows addition, subtraction, division and multiplication .It helps to calculate the values and also to solve the numerical sums/equations. The Implementation of this system will provide the options of (+,-, /,*) to calculate numerical sums.

Reference_:

www.google.com
www.geeksforgeeks.com www.github.com
www.javapoint.com