M. H. SABOO SIDDIK POLYTHECNIC

Advance Java Programming

Text Editor

UNDER THE GUIDANCE OF

Munira Ma'am

COMPUTER DEPARTMENT

(CO5I)

Text Editor

Project By:

COMPUTER DEPARTMENT (CO5I)

2021-2022

Roll No	Name
19406	**Aditya Choudhary**
19416	**Ayesha Loladia**
19420	**Arisha Rakhangi**

MAHARASHTRA STATE
BOARD OF TECHNICAL EDUCATION
CERTIFICATE

This is to certify that Mr. : Aditya Choudhary

Roll No: 19406 Enrollment No:1900020233

of Fourth Semester of Diploma in **Computer Engineering** of Institute **M. H. Saboo Siddik Polytechnic** (Code**: 0002**) has completed their term work satisfactorily in course **Advance Java Programming** (22517) for the academic year 2020 to 2021 as prescribed in the curriculum.

Place: Mumbai Date .....

Exam. Seat No: .....

Subject Teacher. Principal. Head of the department

Seal of Institute

MAHARASHTRA STATE
BOARD OF TECHNICAL EDUCATION
CERTIFICATE

This is to certify that MS: Ayesha Loladia

Roll No: 19416 Enrollment No:1900020252

of Fourth Semester of Diploma in **Computer Engineering** of Institute **M. H. SabooSiddik Polytechnic** (Code**: 0002**) has completed their term work satisfactorily in course **Advance Java Programming** (22517) for the academic year 2020 to 2021 as prescribed in the curriculum.

Place: Mumbai Date .....

Exam. Seat No: .....

Subject Teacher. Principal. Head of the Department.

Seal of Institute

MAHARASHTRA STATE
BOARD OF TECHNICAL EDUCATION
CERTIFICATE

This is to certify that MS: Arisha Rakhangi

Roll No: 19420 Enrollment No: 190002044

of Fourth Semester of Diploma in **Computer Engineering** of Institute **M. H. SabooSiddik Polytechnic** (Code**: 0002**) has completed their term work satisfactorily in course **Advance Java Programming** (22517) for the academic year 2020 to 2021 as prescribed in the curriculum. 2000020496

Place: Mumbai Date .....

Exam. Seat No: .....

Subject Teacher. Principal. Head of the Department.

Seal of Institute

(Name and Signature of Faculty)

ANNEXURE

Evaluation sheet for the micro project

Academic Year: 2021-2022 Name of faculty: Munira Ma'am

Course: Advance Java Programming (22517) Semester: V

Title of the project: Text Editor

Cos addressed by Micro project:

A. _____

B. _____

Major learning outcomes achieved by students by doing the Project:

(a)Practical outcomes. _____

_____

(b)Unit outcomes in Cognitive domain _____

_____

(c)Outcomes in effective domain _____

_____

Comments/suggestions about teamwork/leadership/inter-personal communication (if any)

Roll no.	Student Name	Marks out of 6 for performance in group activity	Marks out of 4 for performance in oral/presentation	Total out of 10
19406	Aditya Chaudhary			
19416	Ayesha Loladia			
19420	Arisha Rakhangi			

Introduction:

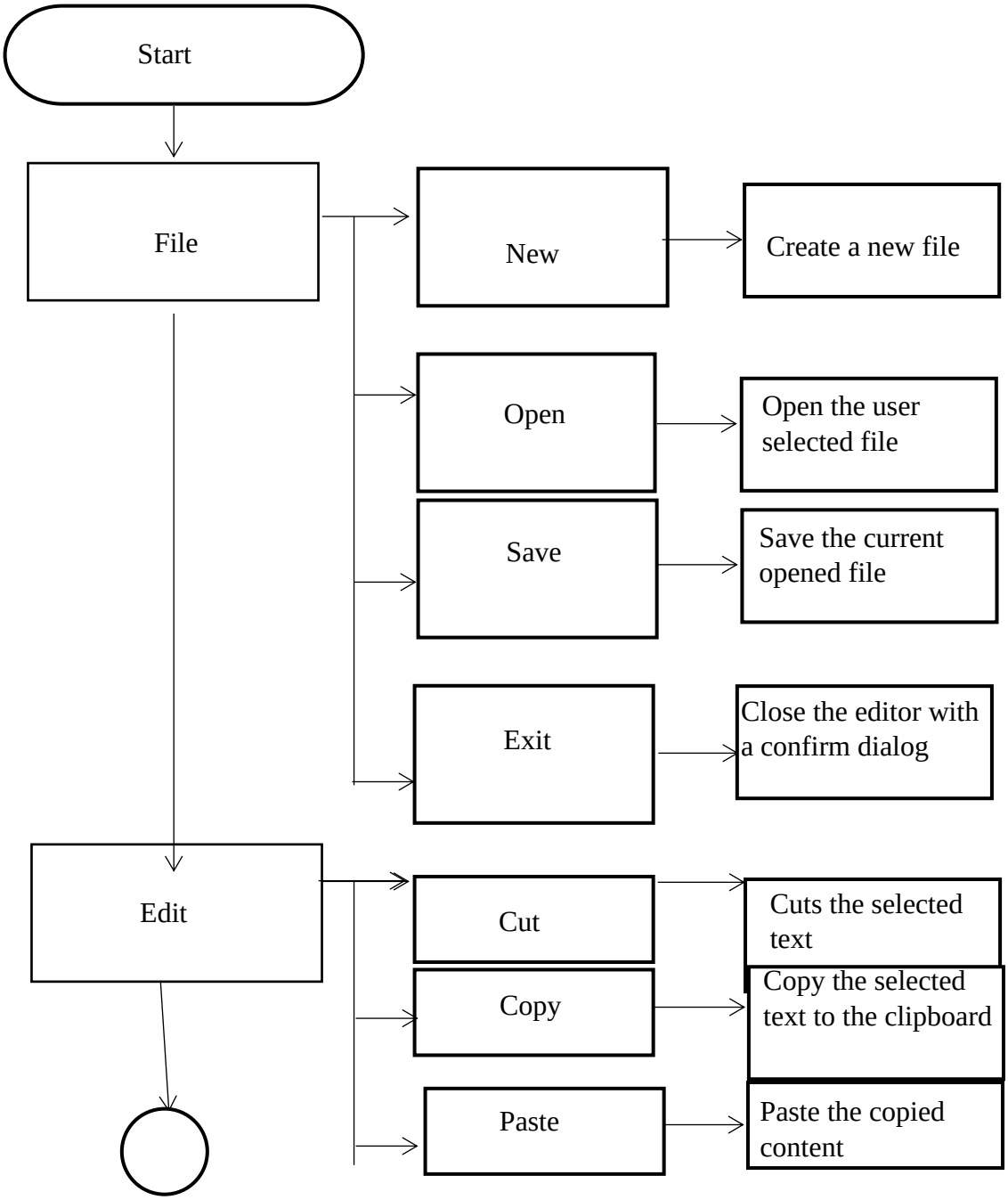
A text editor, in general is a type of program used to edit plain text files. Text editors are often provided with operating systems or systems of software development packages, and can be used to configure files and programming Languages source code. Various text editors are available in the market, e.g., vi editor and Ernacs editor in UNIX, Simple Text and TextEdit editor in Macintosh, Notepad in Microsoft Windows, and so on.

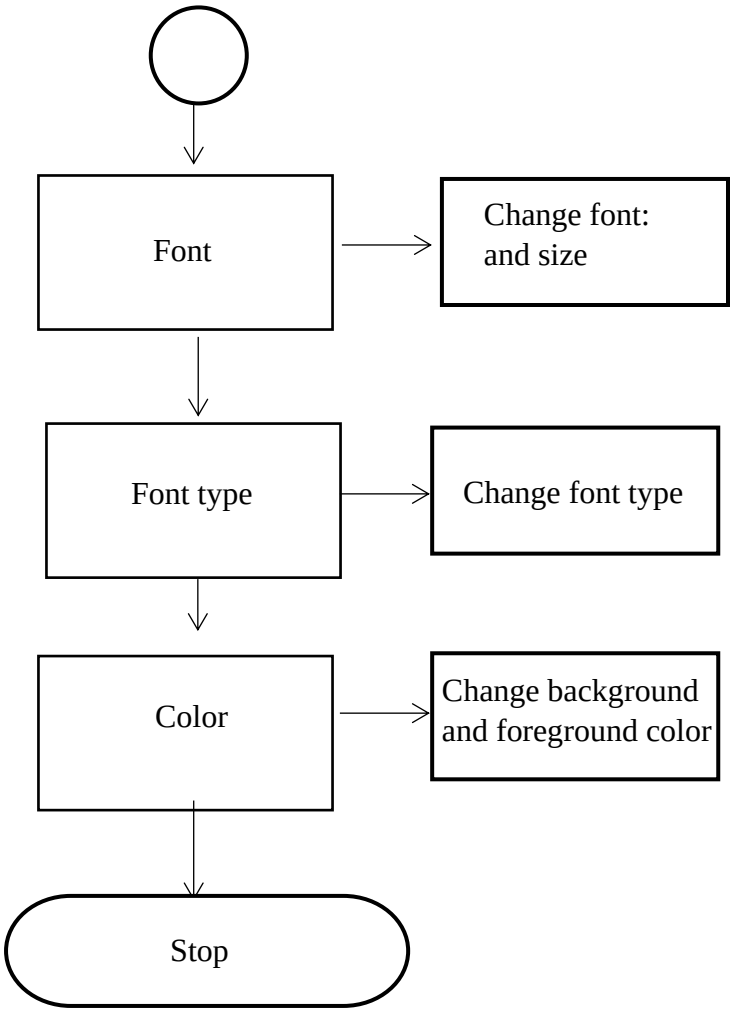
A text editor can be Graphical User Interface (GUI) based or Character User Interface (CUI) based. A GUI based application is always preferred over a CUI based one since we have to click with the help of mouse on the readymade command instead of typing them.

Notepad is the most common text editor used by almost all computer .It is used to create simple documents .It saves files in plain text format (ANCI text) and support only a few formatting options.

The text editor allows the user to open multiple windows in the same application. With this text editor, users will be to create and edit simple text documents or documents with complex formatting and change font color, background color, and use bulleted text. Users can also use the shortcut command from user-friendly toolbar, along with many other options.

Flow Chart


Start
File
New
Create a new file
Open
Open the user selected file
Save
Save the current opened file
Exit
Close the editor with a confirm dialog
Edit
Cut
Cuts the selected text
Copy
Copy the selected text to the clipboard
Paste
Paste the copied content


Font
Change font:
and size
Font type
Change font type
Color
Change background
and foreground color
Stop

Algorithm

Step1: Open the text editor application.

Step 2: (New) Create a new file.

Step 3: (Open) Open the file of the user specified location.

Step 4: (Save) save the currently opened file

Step 5: (Cut) cut the selected text.

Step 6: (Copy) copy the selected text.

Step 7: (Paste) paste the copied text.

Step 8: (Undo) undo the last step.

Step 9: (Redo) redo the last step.

Step 10: (Font type) change the font style such as: Times Roman, Arial etc.

Step 11: (Font) change the font as: bold, italic, plain and change the size of the font.

Step 12: (Color) change the background color and foreground color

Step 13: (Exit) close the application.

Code:

```
import java.awt.*;
import java.awt.event.*;
import java.awt.datatransfer.*;
import java.applet.*;
import java.io.*;
import javax.swing.*;
import javax.swing.undo.*;
import java.util.Hashtable;

class UndoableTextArea extends TextArea implements StateEditable {
  private final static String KEY_STATE = "UndoableTextAreaKey";
  private boolean textChanged = false;
  private UndoManager undoManager;
  private StateEdit currentEdit;

  public UndoableTextArea() {
    super();
    initUndoable();
  }

  public UndoableTextArea(String string) {
    super(string);
    initUndoable();
  }

  public UndoableTextArea(int rows, int columns) {
    super(rows, columns);
    initUndoable();
  }

  public UndoableTextArea(String string, int rows, int columns) {
    super(string, rows, columns);
    initUndoable();
  }

  public UndoableTextArea(String string, int rows, int columns, int scrollbars) {
    super(string, rows, columns, scrollbars);
    initUndoable();
  }

  public boolean undo() {
    try {
      undoManager.undo();
      return true;
```

```
  } catch (CannotUndoException e) {
    System.out.println("cannot undo");
    return false;
  }
 }

 public boolean redo() {
  try {
    undoManager.redo();
    return true;
  } catch (CannotRedoException e) {
    System.out.println("cannot redo");
    return false;
  }
 }

 public void storeState(Hashtable state) {
  state.put(KEY_STATE, getText());
 }

 public void restoreState(Hashtable state) {
  Object data = state.get(KEY_STATE);
  if (data != null) {
    setText((String) data);
  }
 }

 private void takeSnapshot() {
  if (textChanged) {
    currentEdit.end();
    undoManager.addEdit(currentEdit);
    textChanged = false;
    currentEdit = new StateEdit(this);
  }
 }

 private void initUndoable() {
  undoManager = new UndoManager();
  currentEdit = new StateEdit(this);
  addKeyListener(new KeyAdapter() {
    public void keyPressed(KeyEvent event) {
      if (event.isActionKey()) {
        takeSnapshot();
      }
    }
  });
```

```
    addFocusListener(new FocusAdapter() {
      public void focusLost(FocusEvent fe) {
        takeSnapshot();
      }
    });

    addTextListener(new TextListener() {
      public void textValueChanged(TextEvent e) {
        textChanged = true;
        takeSnapshot();
      }
    });

  }
}

public class TextEditor extends Frame {
  boolean b = true;
  Frame fm;

  Clipboard cBoard = getToolkit().getSystemClipboard();
  FileDialog fd;
  Font f;
  int style = Font.PLAIN;
  int fsize = 19;
  UndoableTextArea txt = new UndoableTextArea();
  String filename = "Untitled", st, fn = "untitled", dn;
  Clipboard clip = getToolkit().getSystemClipboard();

  TextEditor() {
    f = new Font("Courier", style, fsize);
    setLayout(new GridLayout(1, 1));
    txt = new UndoableTextArea(80, 25);

    txt.setFont(f);
    add(txt);
    MenuBar mb = new MenuBar();
    Menu fonttype = new Menu("FontType");
    MenuItem one, two, three, four, five, six;
    one = new MenuItem("TimesRoman");
    two = new MenuItem("Helvetica");
    three = new MenuItem("Courier");
    four = new MenuItem("Arial");
    five = new MenuItem("Arial Black");
    six = new MenuItem("Century");

    fonttype.add(one);
```

```
fonttype.add(two);
fonttype.add(three);
fonttype.add(four);
fonttype.add(five);
fonttype.add(six);
one.addActionListener(new Type());
two.addActionListener(new Type());
three.addActionListener(new Type());
four.addActionListener(new Type());
five.addActionListener(new Type());
six.addActionListener(new Type());

Menu fontmenu = new Menu("Font");
MenuItem boldmenu = new MenuItem("Bold");
MenuItem plainmenu = new MenuItem("Plain");
MenuItem italicmenu = new MenuItem("Italic");
fontmenu.add(boldmenu);
fontmenu.add(plainmenu);
fontmenu.add(italicmenu);
boldmenu.addActionListener(new FM());
plainmenu.addActionListener(new FM());
italicmenu.addActionListener(new FM());
Menu size = new Menu("Size");
MenuItem s1, s2, s3, s4, s5, s6, s7, s8, s9, s10;
s1 = new MenuItem("10");
s2 = new MenuItem("12");
s3 = new MenuItem("14");
s4 = new MenuItem("16");
s5 = new MenuItem("18");
s6 = new MenuItem("20");
s7 = new MenuItem("22");
s8 = new MenuItem("24");
s9 = new MenuItem("26");
s10 = new MenuItem("28");
size.add(s1);
size.add(s2);
size.add(s3);
size.add(s4);
size.add(s5);
size.add(s6);
size.add(s7);
size.add(s8);
size.add(s9);
size.add(s10);

s1.addActionListener(new Size());
s2.addActionListener(new Size());
```

```
s3.addActionListener(new Size());
s4.addActionListener(new Size());
s5.addActionListener(new Size());
s6.addActionListener(new Size());
s7.addActionListener(new Size());
s8.addActionListener(new Size());
s9.addActionListener(new Size());
s10.addActionListener(new Size());
size.addActionListener(new FM());
fontmenu.add(size);
Menu file = new Menu("File");
MenuItem n = new MenuItem("New", new MenuShortcut(KeyEvent.VK_N));
MenuItem o = new MenuItem("Open", new MenuShortcut(KeyEvent.VK_O));
MenuItem s = new MenuItem("Save", new MenuShortcut(KeyEvent.VK_S));
MenuItem e = new MenuItem("Exit", new MenuShortcut(KeyEvent.VK_E));
n.addActionListener(new New());
file.add(n);
o.addActionListener(new Open());
file.add(o);
s.addActionListener(new Save());
file.add(s);
e.addActionListener(new Exit());
file.add(e);
mb.add(file);
addWindowListener(new Win());
Menu edit = new Menu("Edit");
MenuItem cut = new MenuItem("Cut", new MenuShortcut(KeyEvent.VK_X));
MenuItem copy = new MenuItem("Copy", new MenuShortcut(KeyEvent.VK_C));
MenuItem paste = new MenuItem("Paste", new MenuShortcut(KeyEvent.VK_V));
MenuItem undo = new MenuItem("Undo", new MenuShortcut(KeyEvent.VK_Z));
undo.addActionListener(new WW());
edit.add(undo);
cut.addActionListener(new Cut());
edit.add(cut);
copy.addActionListener(new Copy());
edit.add(copy);
paste.addActionListener(new Paste());
edit.add(paste);
Menu color = new Menu("Color");
MenuItem Bg = new MenuItem("Background");
MenuItem Fg = new MenuItem("Foreground");
Bg.addActionListener(new BC());
Fg.addActionListener(new BC());

color.add(Bg);
color.add(Fg);
mb.add(edit);
```

```
  mb.add(fontmenu);
  mb.add(fonttype);
  mb.add(color);
  setMenuBar(mb);
  setTitle("Wenben");

  mylistener mylist = new mylistener();
  addWindowListener(mylist);
 }

 class WW implements ActionListener {
  public void actionPerformed(ActionEvent e) {
    String se = e.getActionCommand();
    if (se.equals("Undo"))
      txt.undo();
    if (se.equals("Redo"))
      txt.redo();

  }
 }

 class mylistener extends WindowAdapter {
  public void windowClosing(WindowEvent we) {
    if (!b)
      System.exit(0);
  }
 }

 class New implements ActionListener {
  public void actionPerformed(ActionEvent ae) {
    txt.setText(" ");
    setTitle("Untilted - Wenben");
    fn = "Untitled";
  }
 }

 class Open implements ActionListener {
  /*
   * public void actionPerformed(ActionEvent ae) { FileDialog fd=new
   * FileDialog(TextEditor.this,"Select File",FileDialog.LOAD); fd.show();
   * if((fn=fd.getFile())!=null) { filename=fd.getDirectory()+fd.getFile();
   * dn=fd.getDirectory(); setTitle(filename+" - Wenben"); readFile(); }
   * txt.requestFocus(); }
   */
  public void actionPerformed(ActionEvent ope) {
    FileDialog fDialog = new FileDialog(TextEditor.this, "Open", FileDialog.LOAD);
    fDialog.show();
```

```
    if (fDialog.getFile() != null) {
      filename = fDialog.getDirectory() + fDialog.getFile();
      setTitle(fDialog.getFile() + " - Wenben");
      ReadFile();
    }
    txt.requestFocus();
  }

}

class Save implements ActionListener {
  public void actionPerformed(ActionEvent ae) {
    FileDialog fDialog = new FileDialog(TextEditor.this, "Save", FileDialog.SAVE);
    fDialog.show();
    if (fDialog.getFile() != null) {
      filename = fDialog.getDirectory() + fDialog.getFile();
      setTitle(fDialog.getFile() + " - Wenben");
      try {
        DataOutputStream dOutStream = new DataOutputStream(new FileOutputStream(filename));
        String oLine = txt.getText();
        BufferedReader bReader = new BufferedReader(new StringReader(oLine));
        while ((oLine = bReader.readLine()) != null) {
          dOutStream.writeBytes(oLine + "\r\n");
        }
        dOutStream.close();
      } catch (Exception ex) {
        System.out.print("Required file not found");
      }
      txt.requestFocus();
    }
  }
}

void ReadFile() {
  BufferedReader br;
  StringBuffer sBuffer = new StringBuffer();
  try {
    br = new BufferedReader(new FileReader(filename));
    String oLine;
    while ((oLine = br.readLine()) != null)
      sBuffer.append(oLine + "\n");
    txt.setText(sBuffer.toString());
    br.close();
  } catch (FileNotFoundException fe) {
    System.out.print("Required file not found");
  } catch (IOException ioe) {
  }
```

```
}

class Exit implements ActionListener {
  public void actionPerformed(ActionEvent ae) {
    System.exit(0);
  }
}
void readFile() {
  BufferedReader d;
  StringBuffer sb = new StringBuffer();
  try {
    d = new BufferedReader(new FileReader(filename));
    String line;
    while ((line = d.readLine()) != null)
      sb.append(line + " ");
    txt.setText(sb.toString());
    d.close();
  } catch (FileNotFoundException e) {
    System.out.println("File not found");
  } catch (IOException e) {
  }
}
public void writeFile() {
  try {
    DataOutputStream d = new DataOutputStream(new FileOutputStream(filename));
    String line = txt.getText();
    BufferedReader br = new BufferedReader(new StringReader(line));
    while ((line = br.readLine()) != null) {
      d.writeBytes(line + " ");
    }
    d.close();
  } catch (Exception e) {
    System.out.println("File not found");
  }
}

class Cut implements ActionListener {
  public void actionPerformed(ActionEvent ae) {
    String sel = txt.getSelectedText();
    StringSelection ss = new StringSelection(sel);
    clip.setContents(ss, ss);
    txt.replaceRange(" ", txt.getSelectionStart(), txt.getSelectionEnd());
  }
}

class Copy implements ActionListener {
  public void actionPerformed(ActionEvent ae) {
```

```
      String sel = txt.getSelectedText();
      StringSelection clipstring = new StringSelection(sel);
      clip.setContents(clipstring, clipstring);
    }
  }

  class Paste implements ActionListener {
    public void actionPerformed(ActionEvent ae) {
      Transferable cliptran = clip.getContents(TextEditor.this);
      try {
        String sel = (String) cliptran.getTransferData(DataFlavor.stringFlavor);

        txt.replaceRange(sel, txt.getSelectionStart(), txt.getSelectionEnd());
      } catch (Exception e) {
        System.out.println("not starting flavor");
      }
    }
  }

  class Win extends WindowAdapter {
    public void windowClosing(WindowEvent we) {

      ConfirmDialog cd = new ConfirmDialog();
      if (!b) {
        System.exit(0);
      }
    }
  }

  class ConfirmDialog extends JPanel {
    public ConfirmDialog() {
      int result;

      result = JOptionPane.showConfirmDialog(this,
          " Do you want to save changes to\n" + filename/* ,"Message
Box",JOptionPane.QUESTION_MESSAGE */);

      switch (result) {
      case JOptionPane.YES_OPTION:
        FileDialog fd = new FileDialog(TextEditor.this, "Save File", FileDialog.SAVE);
        fd.setFile(fn);
        fd.setDirectory(dn);
        fd.show();
        if (fd.getFile() != null) {
          filename = fd.getDirectory() + fd.getFile();
          setTitle(filename);
          writeFile();
```

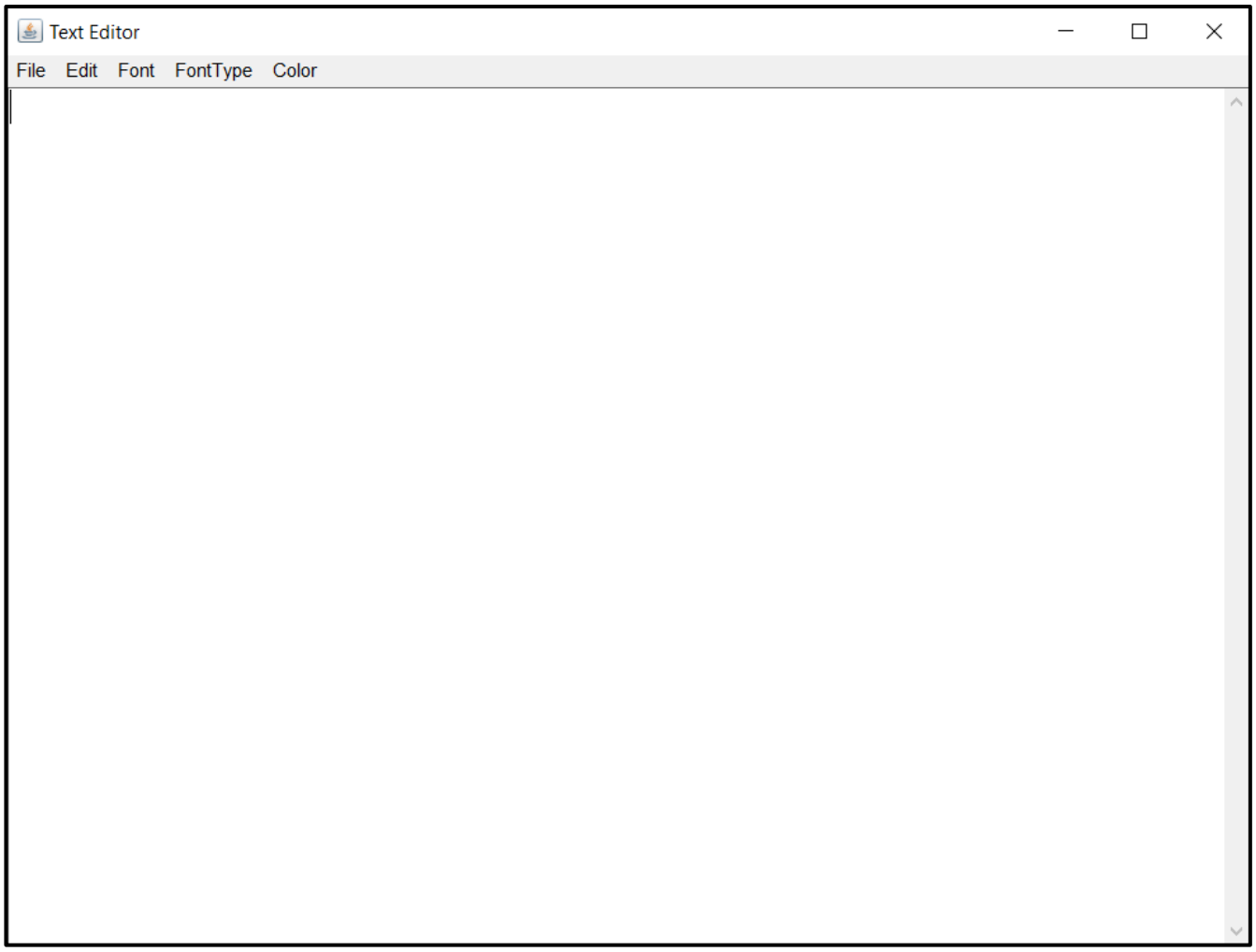
```
        txt.requestFocus();
       }
       System.out.println("Yes button pressed");
       break;
     case JOptionPane.NO_OPTION:
       dispose();
       System.exit(0);
       System.out.println("NO button pressed");
       break;
     case JOptionPane.CANCEL_OPTION:
       setVisible(true);
       // b=false;
       repaint();
       System.out.println("Cancel button pressed");
       break;
     case JOptionPane.CLOSED_OPTION:
       System.out.println("Closed button pressed");
       break;
     }
   }
}

class Size implements ActionListener {
  public void actionPerformed(ActionEvent e) {
     int style = f.getStyle();
     String w = e.getActionCommand();
     if (w == "10") {
       f = new Font("Courier", style, 10);
       txt.setFont(f);
       fsize = f.getSize();
       repaint();
     }
     if (w == "12") {
       f = new Font("Courier", style, 12);
       fsize = f.getSize();
       txt.setFont(f);
       repaint();
     }
     if (w == "14") {
       f = new Font("Courier", style, 14);
       fsize = f.getSize();
       txt.setFont(f);
       repaint();
     }
     if (w == "16") {
       f = new Font("Courier", style, 16);
       txt.setFont(f);
```

```
      fsize = f.getSize();
      repaint();
    }
    if (w == "18") {
      f = new Font("Courier", style, 18);
      txt.setFont(f);
      fsize = f.getSize();
      repaint();
    }
    if (w == "20") {
      f = new Font("Courier", style, 20);
      txt.setFont(f);
      fsize = f.getSize();
      repaint();
    }
    if (w == "22") {
      f = new Font("Courier", style, 22);
      txt.setFont(f);
      fsize = f.getSize();
      repaint();
    }
    if (w == "24") {
      f = new Font("Courier", style, 24);
      txt.setFont(f);
      fsize = f.getSize();
      repaint();
    }
    if (w == "26") {
      f = new Font("Courier", style, 26);
      txt.setFont(f);
      fsize = f.getSize();
      repaint();
    }

    if (w == "28") {
      f = new Font("Courier", style, 28);
      txt.setFont(f);
      fsize = f.getSize();
      repaint();
    }

  }
}

class FM extends Applet implements ActionListener {
  public void actionPerformed(ActionEvent e) {
    String b = e.getActionCommand();
```

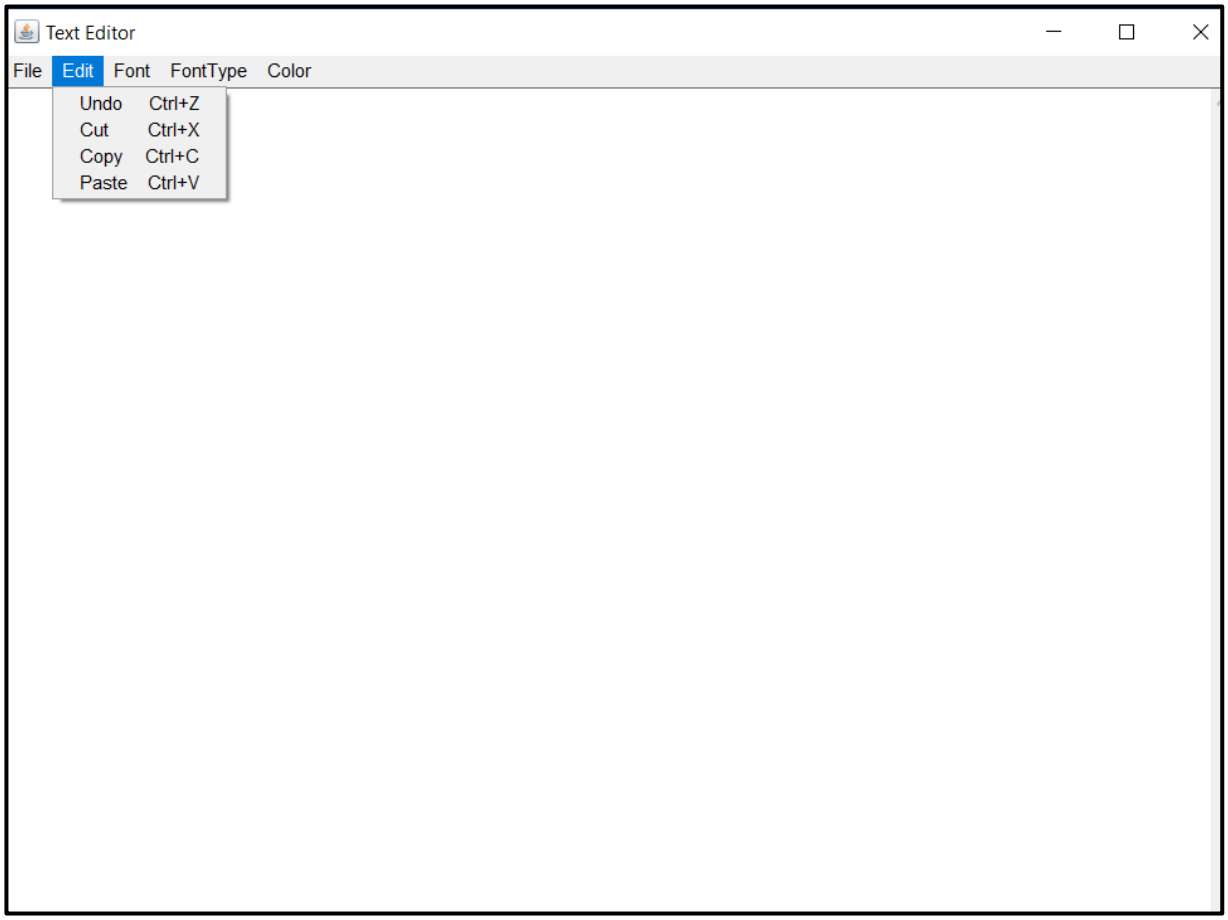
```
    if (b == "Bold") {
      f = new Font("Courier", Font.BOLD, fsize);
      style = f.getStyle();
      txt.setFont(f);
    }
    if (b == "Plain") {
      f = new Font("Courier", Font.PLAIN, fsize);
      style = f.getStyle();
      txt.setFont(f);
    }

    if (b == "Italic") {
      f = new Font("Courier", Font.ITALIC, fsize);
      txt.setFont(f);
    }
    repaint();
  }
}

class Type implements ActionListener {
  public void actionPerformed(ActionEvent e) {
    String lbl = e.getActionCommand();
    if (lbl == "TimesRoman") {
      f = new Font("TimesRoman", style, fsize);
      txt.setFont(f);
    }
    if (lbl == "Courier") {
      f = new Font("Courier", style, fsize);
      txt.setFont(f);
    }
    if (lbl == "Helvetica") {
      f = new Font("Helvetica", style, fsize);
      txt.setFont(f);
    }
    if (lbl == "Arial") {
      f = new Font("Arial", style, fsize);
      txt.setFont(f);
    }
    if (lbl == "Arial Black") {
      f = new Font("ArialBlack", style, fsize);
      txt.setFont(f);
    }
    if (lbl == "Century") {
      f = new Font("Century", style, fsize);
      txt.setFont(f);
    }
```

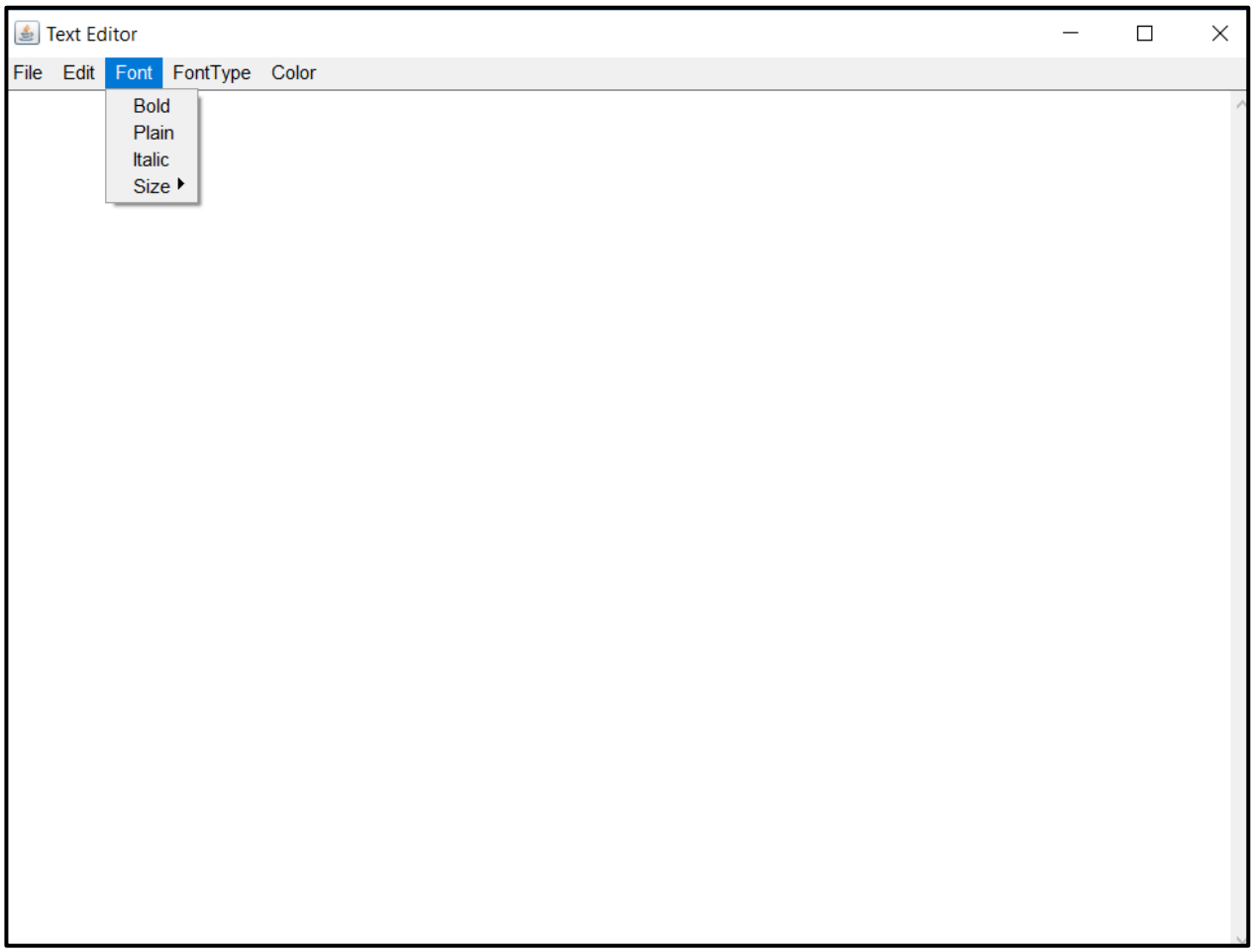
```
    repaint();
  }
}

class BC implements ActionListener {
  public void actionPerformed(ActionEvent e) {
    st = e.getActionCommand();
    JFrame jf = new JFrame("JColorChooser");
    colorChooser c = new colorChooser();
    c.setSize(400, 300);
    c.setVisible(true);
  }
}

class colorChooser extends JFrame {
  Button ok;
  JColorChooser jcc;

  public colorChooser() {
    setTitle("JColorChooser");
    jcc = new JColorChooser();
    JPanel content = (JPanel) getContentPane();
    content.setLayout(new BorderLayout());
    content.add(jcc, "Center");
    ok = new Button("OK");
    content.add(ok, "South");
    ok.addActionListener(new B());
  }
  class B implements ActionListener {
    public void actionPerformed(ActionEvent e) {
      System.out.println("Color Is:" + jcc.getColor().toString());
      if (st.equals("Background"))
        txt.setBackground(jcc.getColor());
      if (st.equals("Foreground"))
        txt.setForeground(jcc.getColor());
      setVisible(false);
    }
  }
}

public static void main(String args[]) {
  Frame fm = new TextEditor();
  fm.setSize(800, 600);
        fm.setTitle("Text Editor");
  fm.setVisible(true);
  fm.show();
}}
```

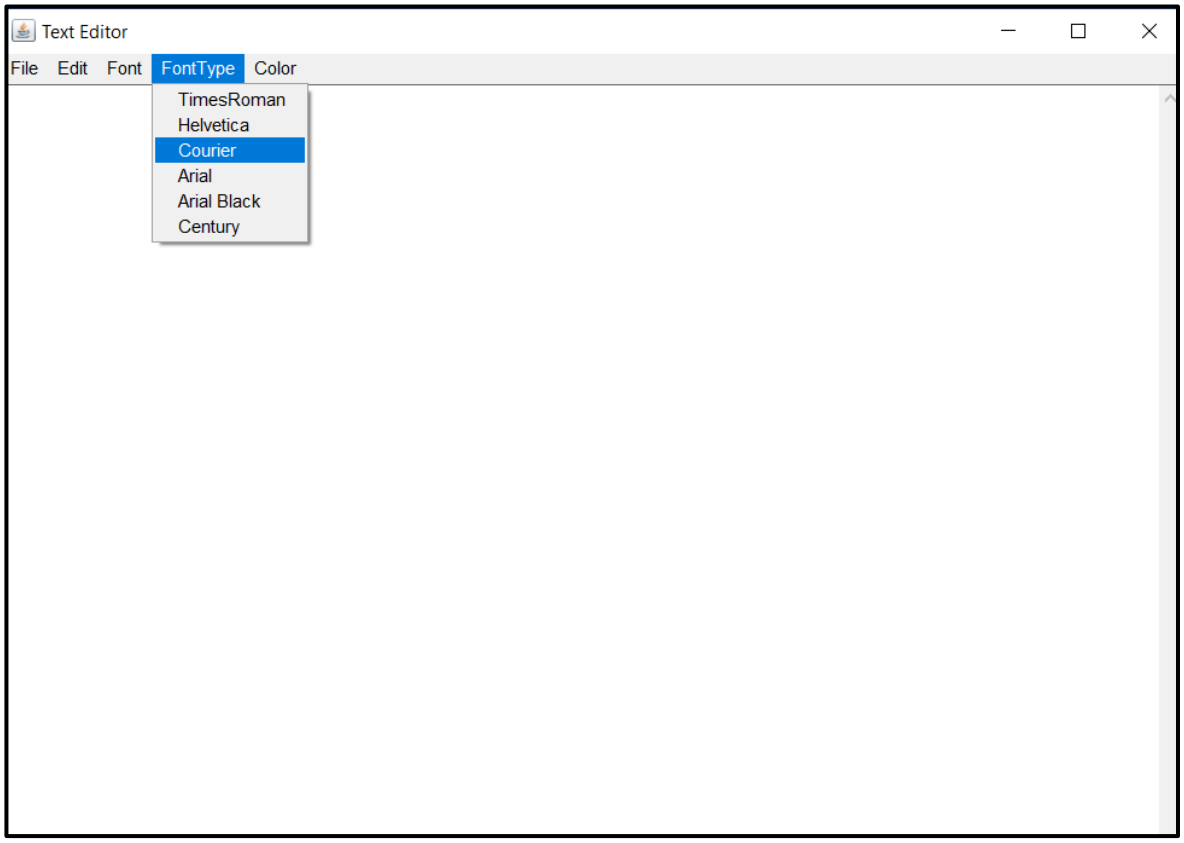
Output:


Text Editor
File
Edit
Font
FontType
Color

Text Editor
File
Edit
Font
FontType
Color
New Ctrl+N
Open Ctrl+O
Save Ctrl+S
Exit Ctrl+E


Text Editor
File
Edit
Font
FontType
Color
Undo Ctrl+Z
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V


Text Editor
File
Edit
Font
FontType
Color
Bold
Plain
Italic
Size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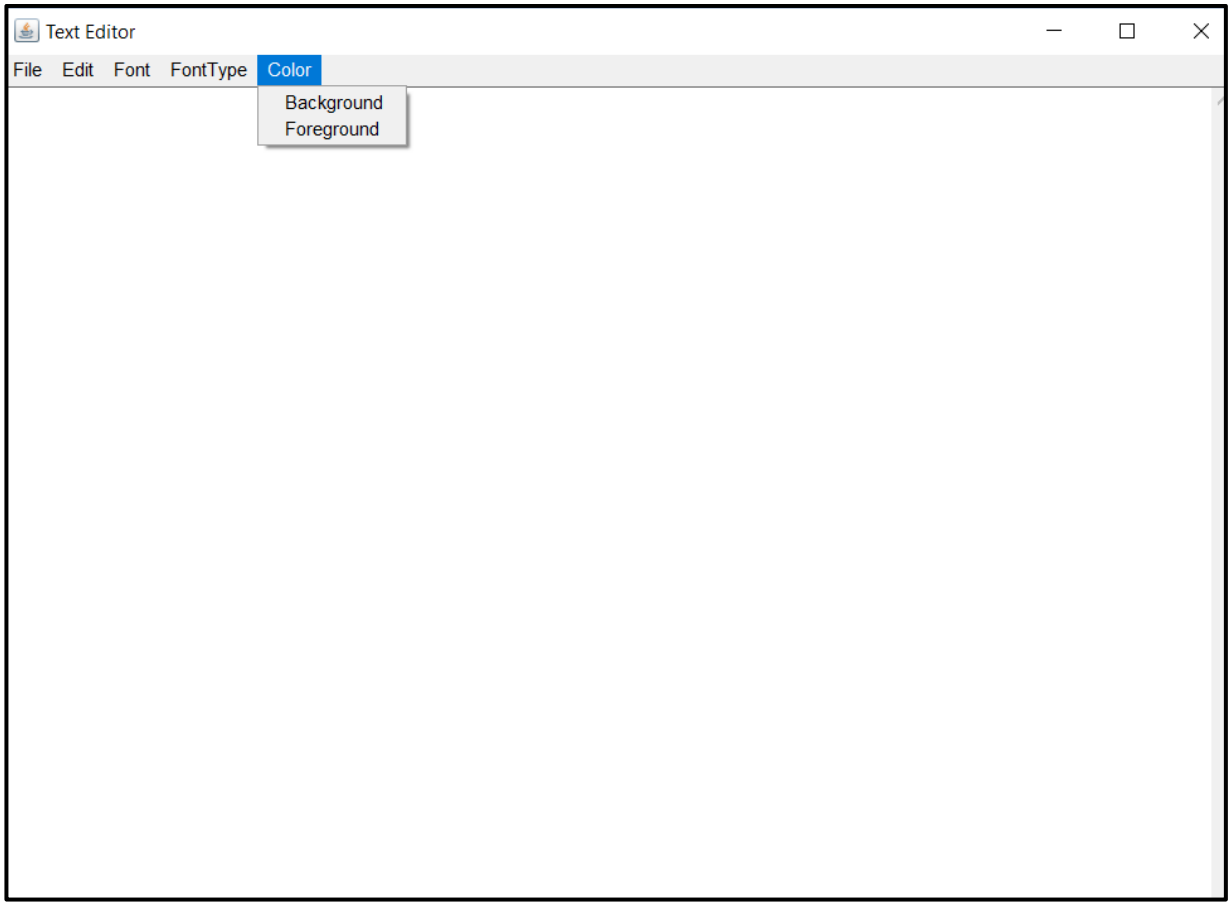
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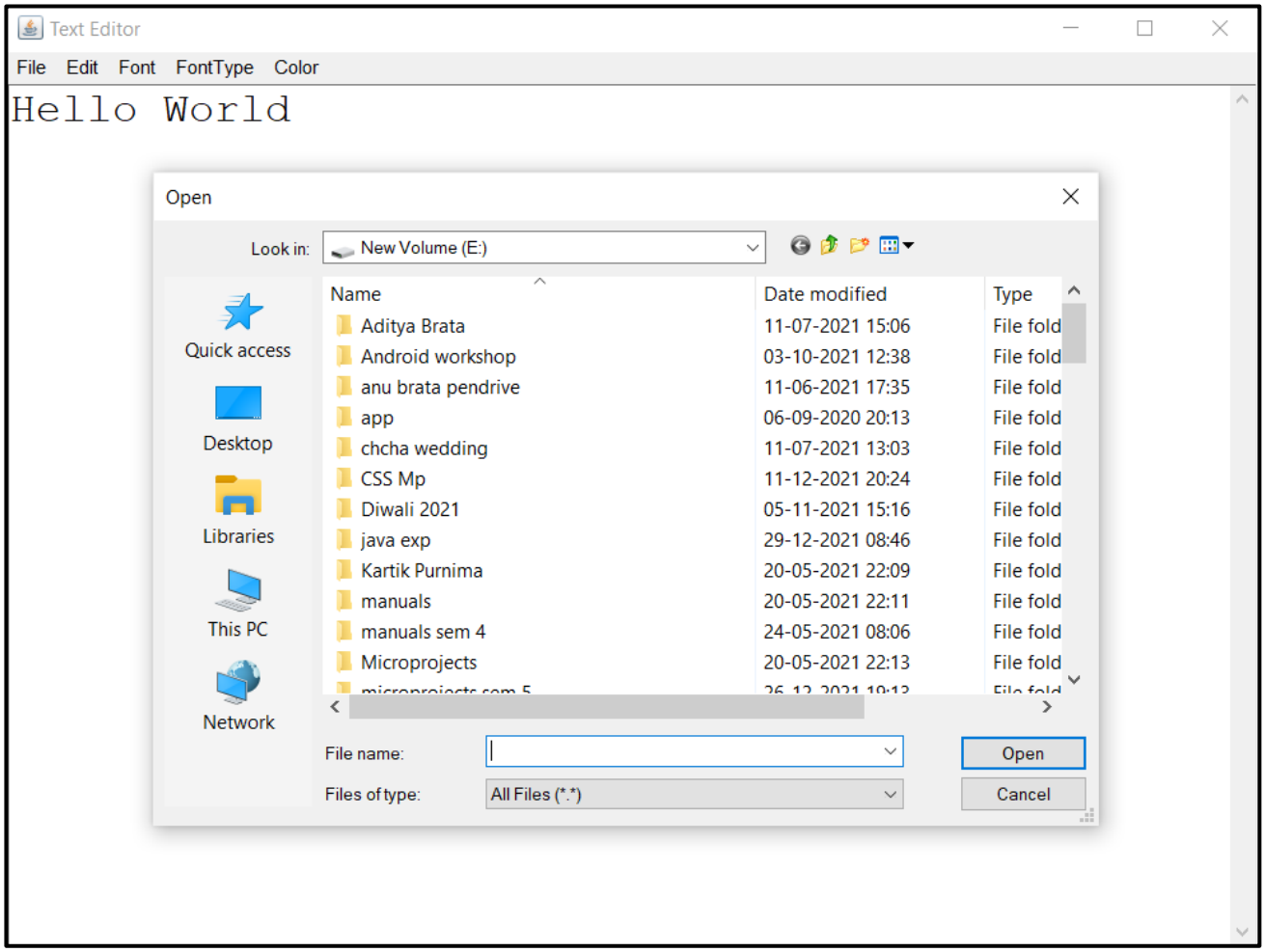
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Android workshop 03-10-2021 12:38 File fold
anu brata pendrive 11-06-2021 17:35 File fold
app 06-09-2020 20:13 File fold
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java exp 29-12-2021 08:46 File fold
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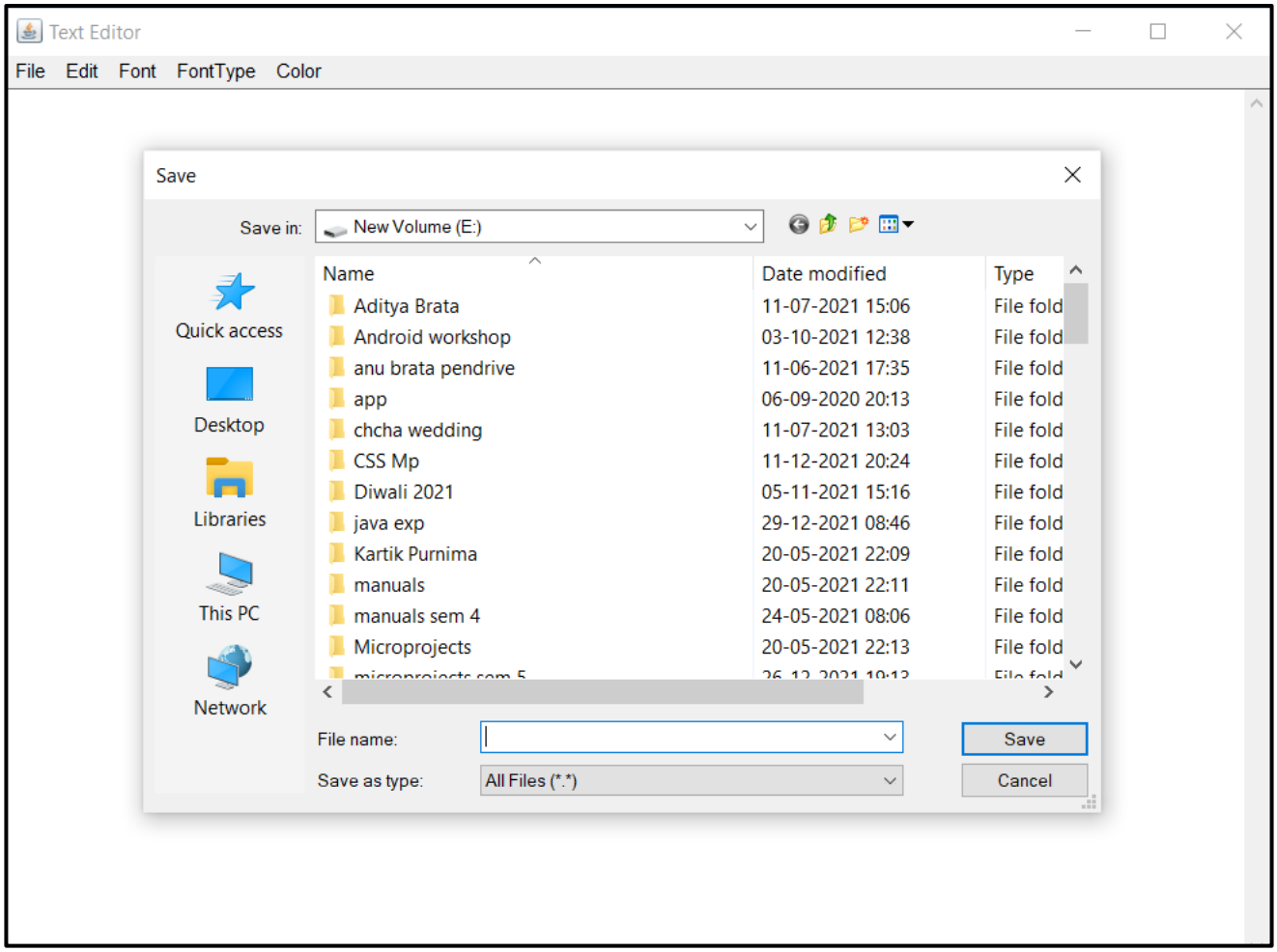
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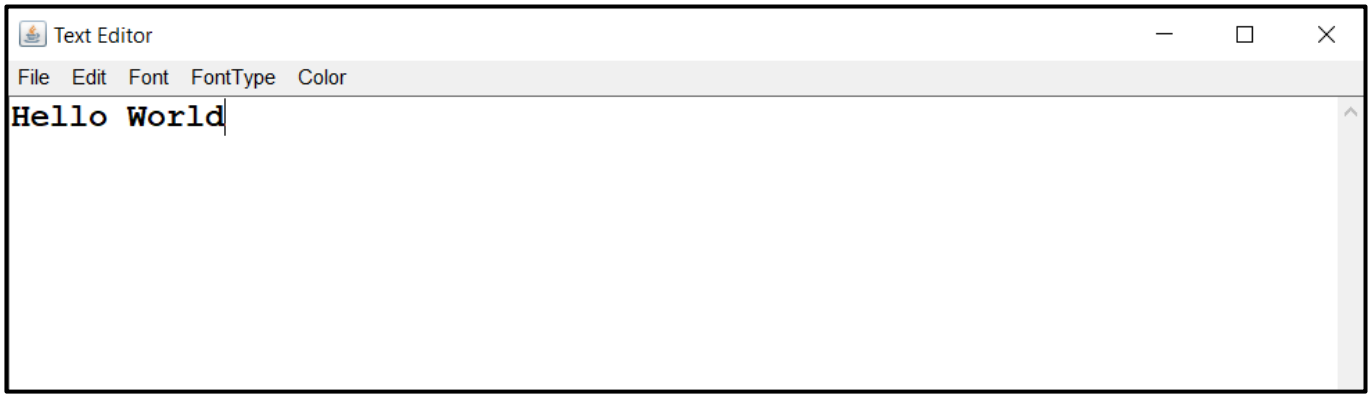
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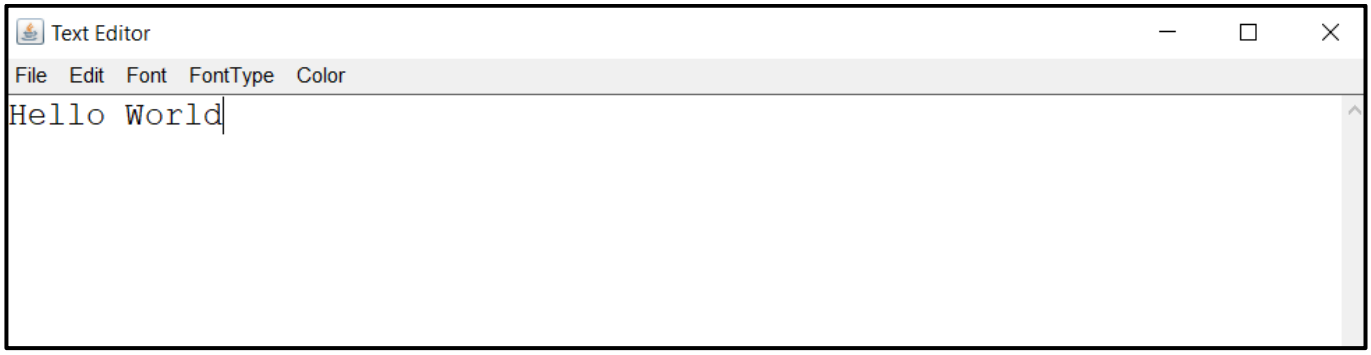
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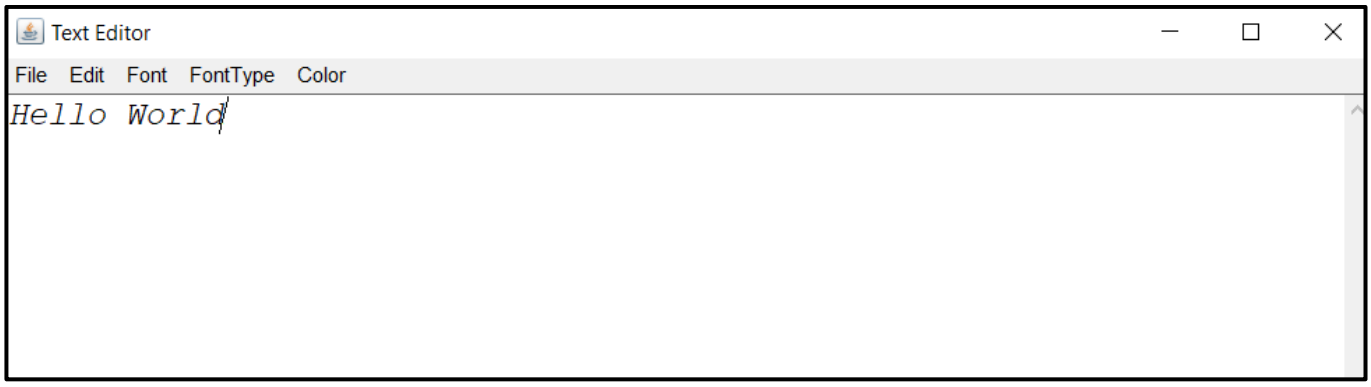
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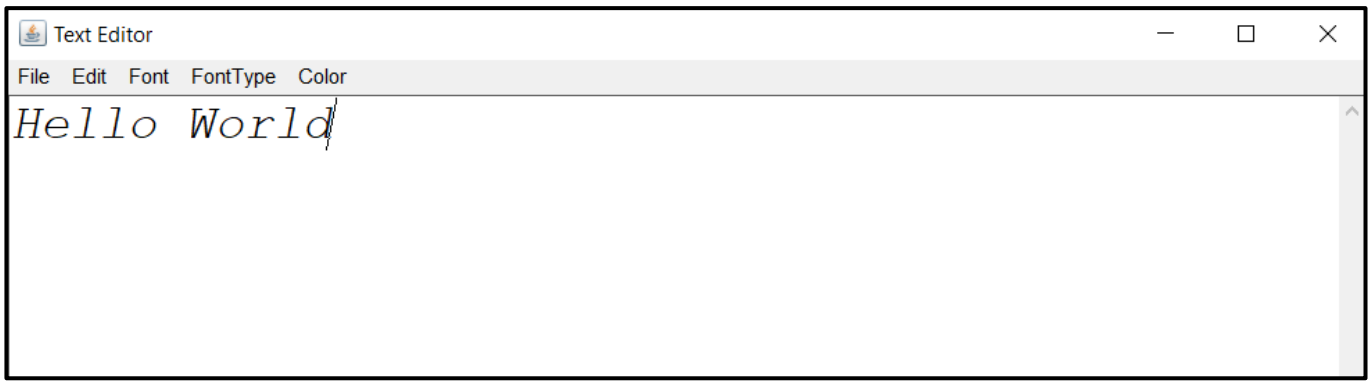
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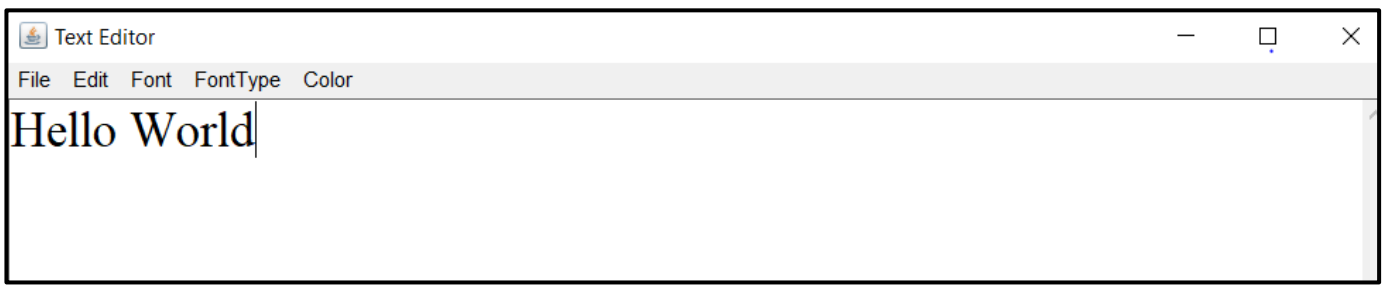
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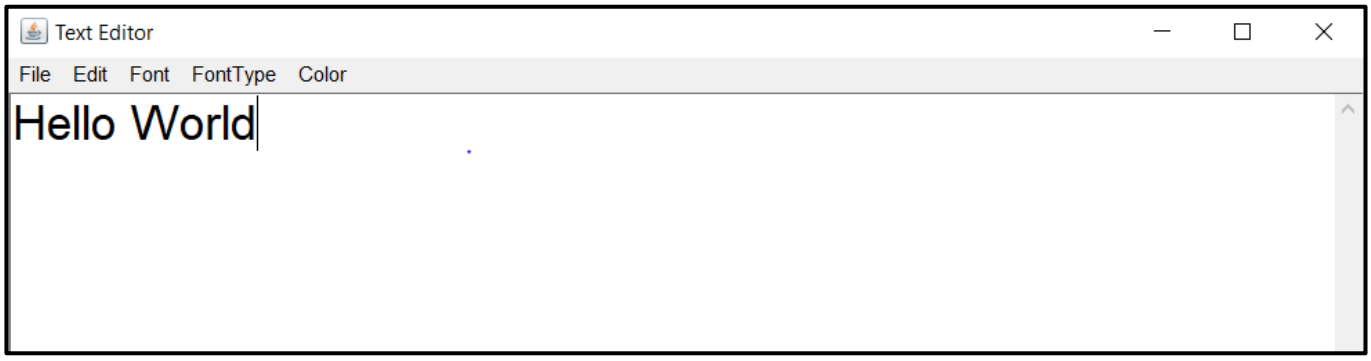
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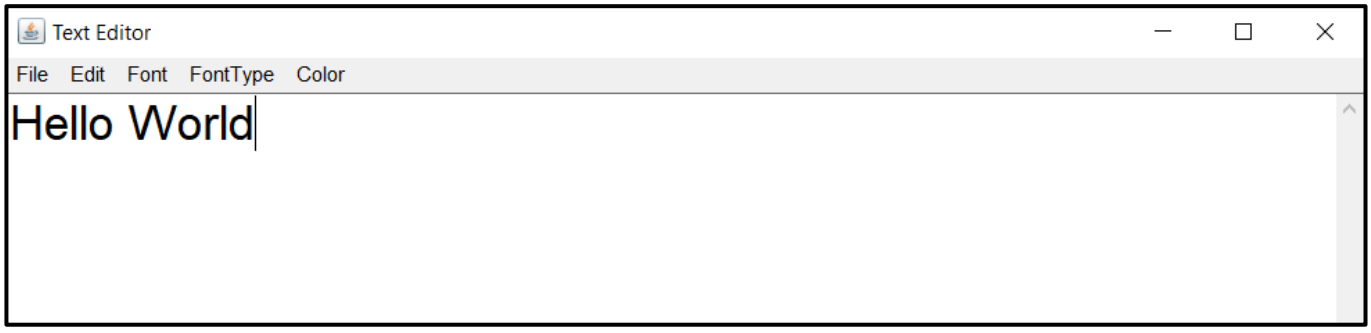
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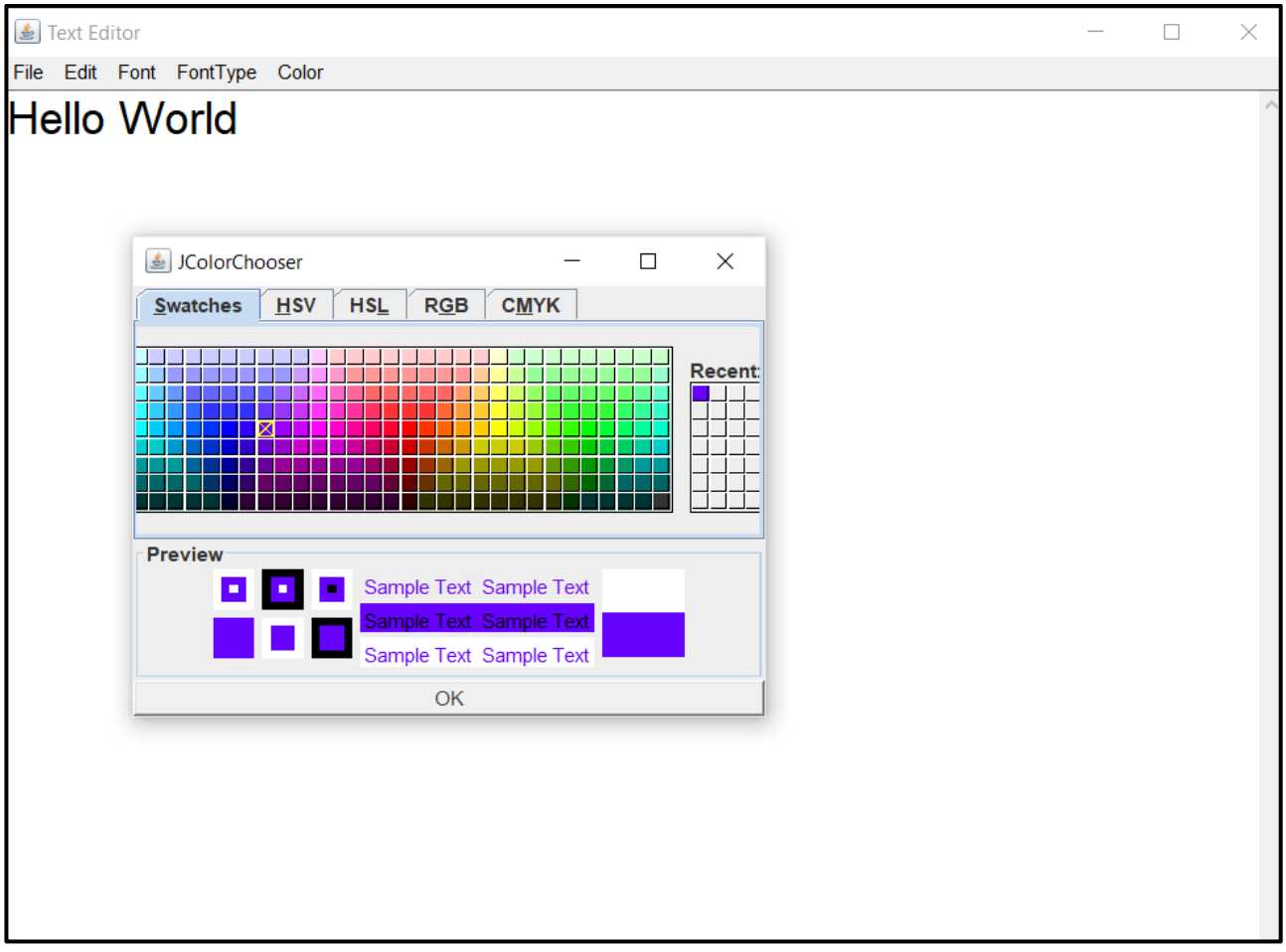
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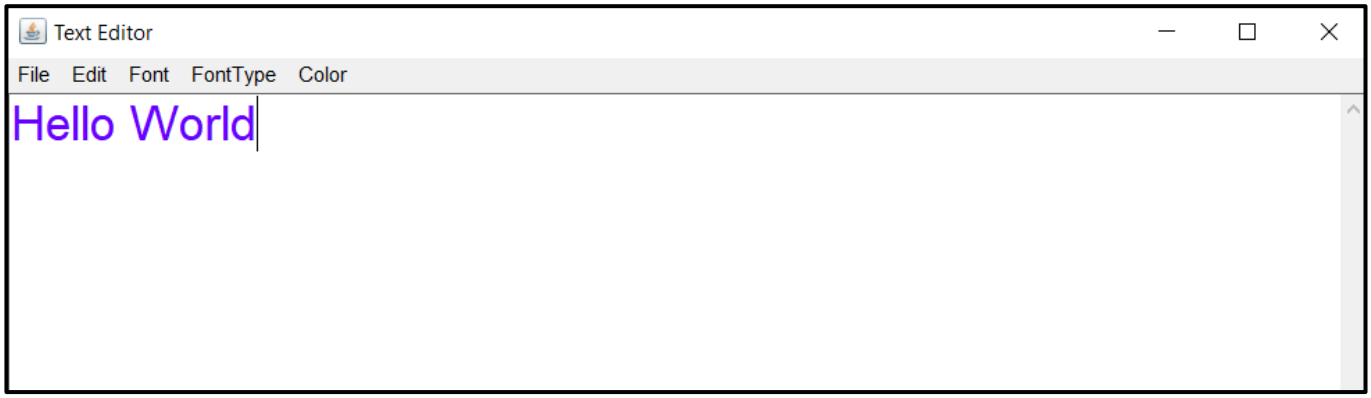
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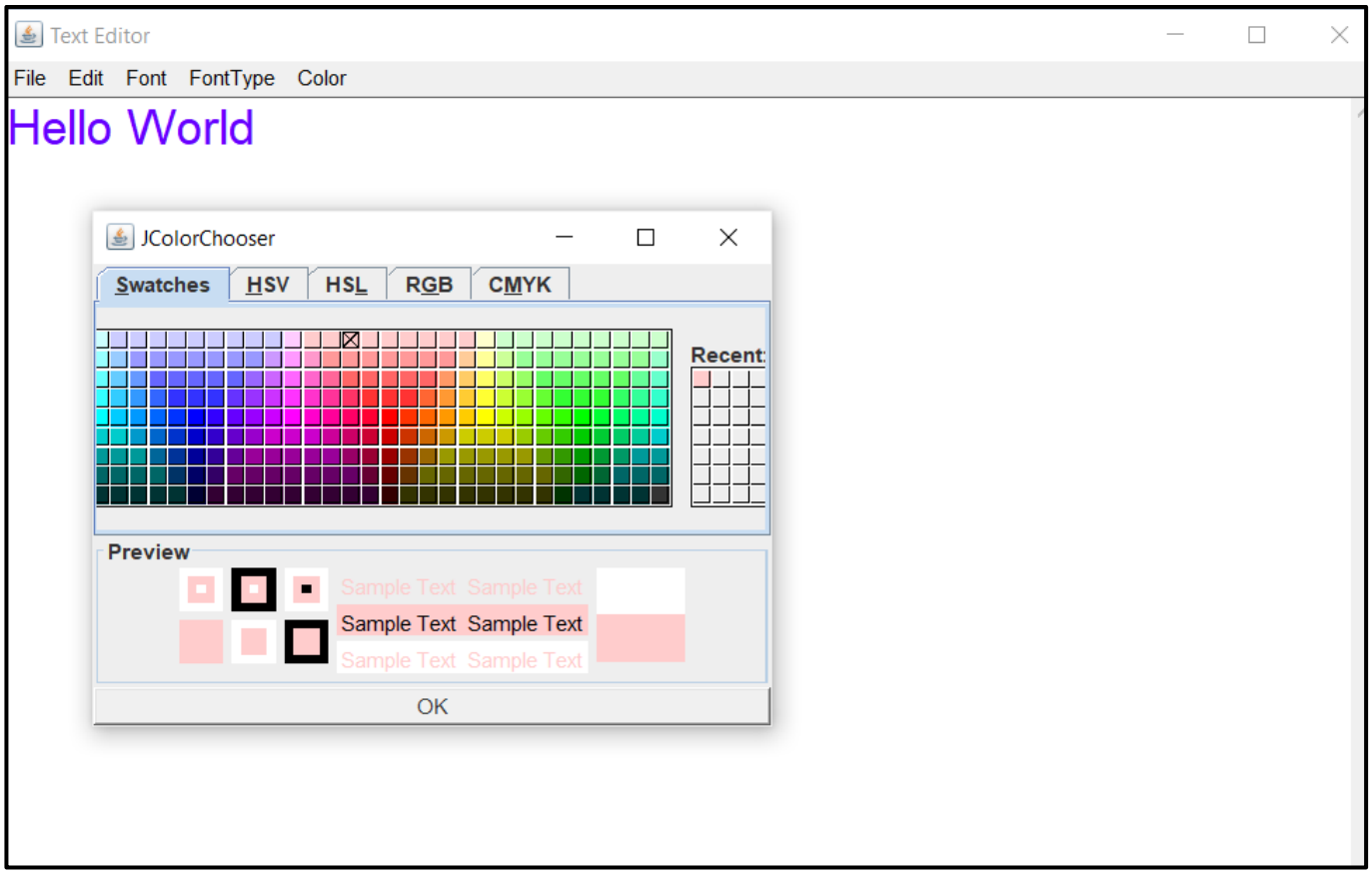
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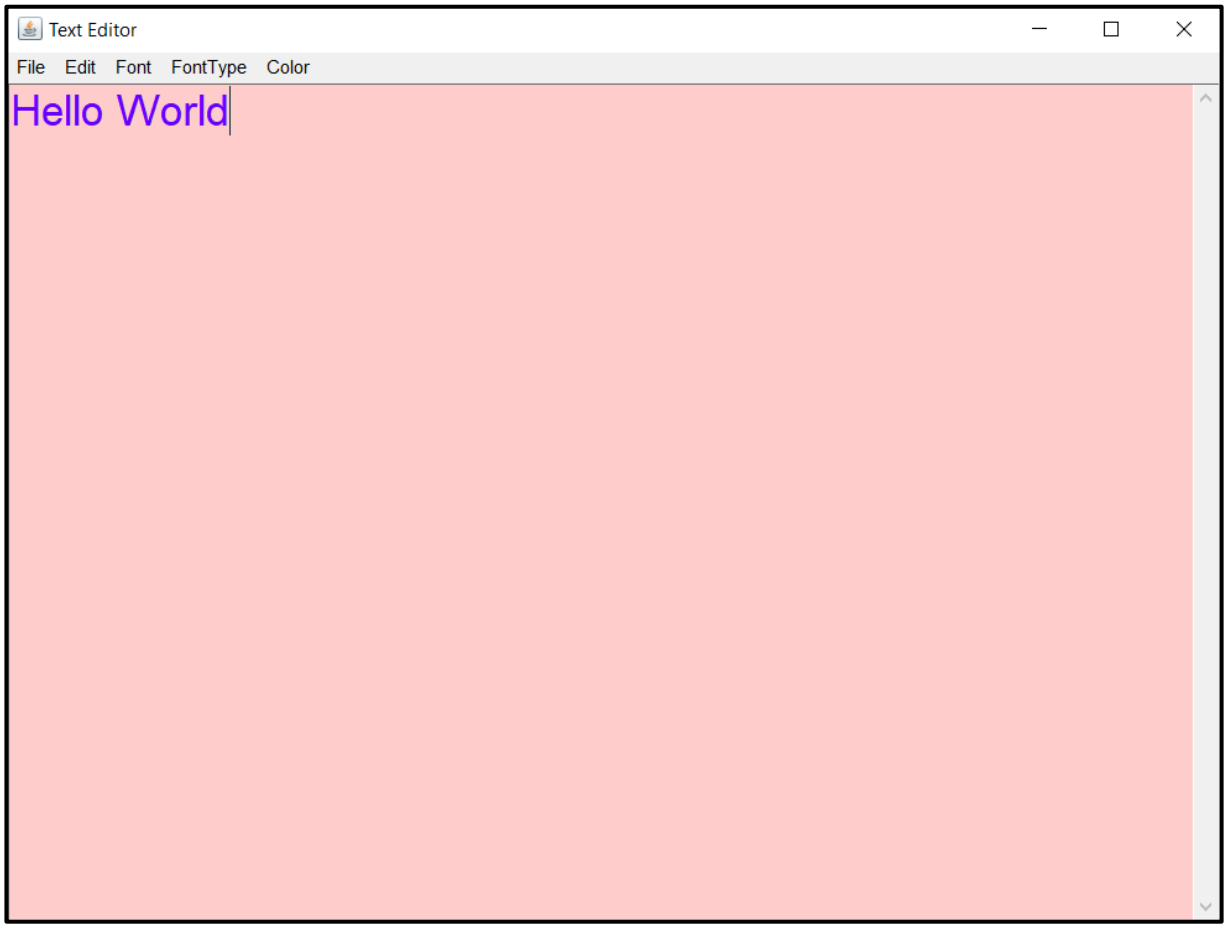
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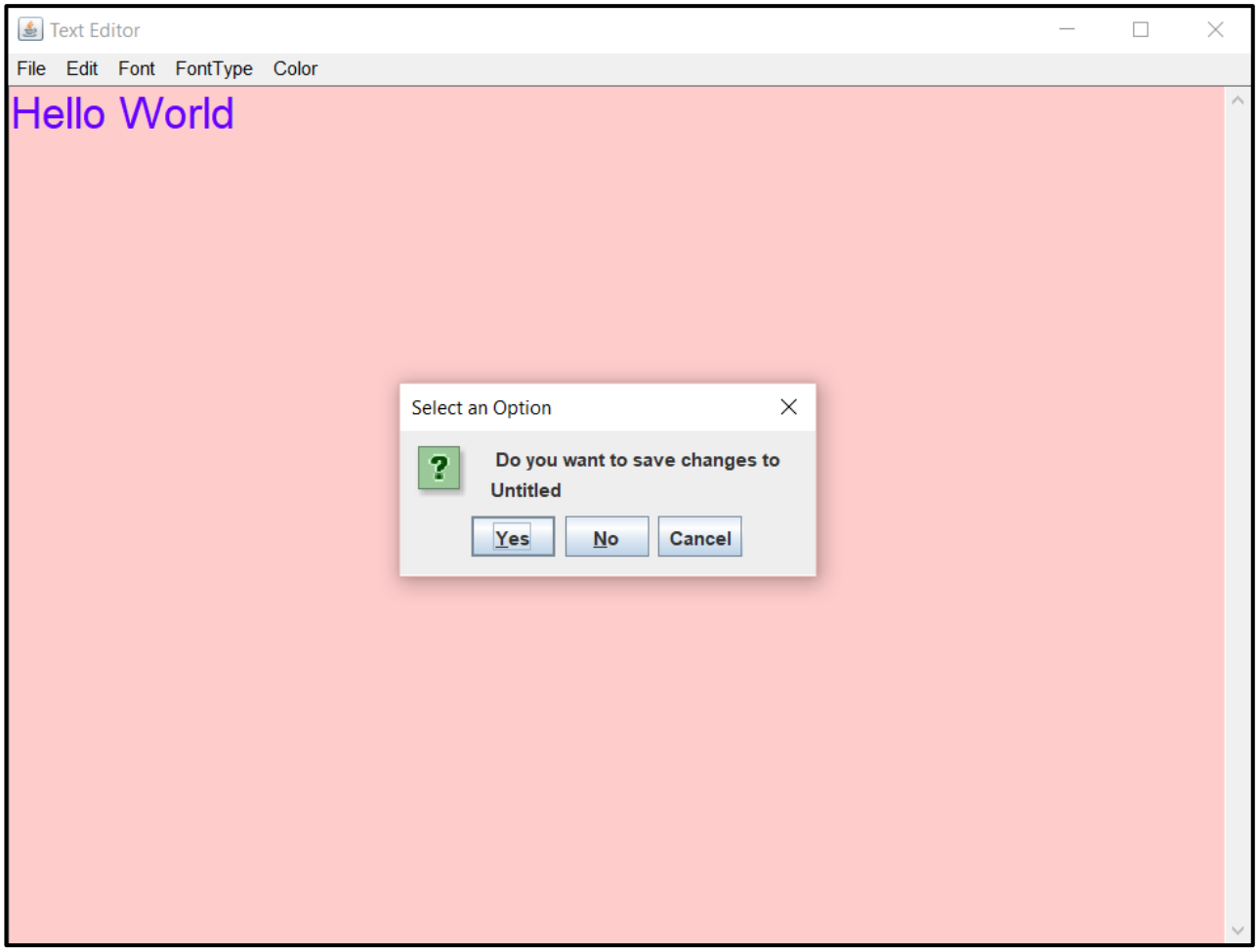
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Hello World
Select an Option
Do you want to save changes to
Untitled
Yes
No
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AJP LOG FOR MICRO-PROJECT

Student name:- Aditya Chaudhary.

Week: 1 Duration: 1 HR

Today, during the Advance Java Programming (AJP) lecture, ma'am started instructing about the rules of Micro-Project like what all information we have to add in the report and told us to form groups of two students or maximum of three students for the micro-project, and specified that the group strength should not exceed more than three students. And told us to search the micro-project topic, the topic should be either related to management, text editor etc. And told that the micro-project should encompass two or more Cos which are in fact, an integration of PROs, UOs, and ADOs.

Week: 2 Duration: 1 HR

Today, She added that each group member will have to maintain a dated diary consisting of individual contribution in the project work and give a seminar presentation of it before submission. The total duration of the micro-project should not be less than 16 Weeks engagement hours during the course, Per Week should consist of one hour information of the progress in the report. And the micro-project should be submitted before the end of the semester to develop the industry oriented Cos. Then we formed group of three members for the Micro-Project.

Following are my team-members:

1) Loladia Ayesha (19416).
2) Arisha Rakhangi (19420).

Week: 3 Duration: 1HR

Today, we started searching the micro-project topic on the internet. We found many topics like Airline reservation system, Text Editor, Course management system, Data visualization software, Electricity billing system, e-Healthcare management system, Email client software, Library management system, Network packet sniffer, Online bank management system, Online medical management system, Online quiz management system, Online Survey System, Stock management system etc.. We selected the topic ***"Text Editor",*** because we thought this was something different and interesting topic.

Week: 4 Duration: 1 HR

Today, Ma'am explained to us that Uniformity should be maintained in the report and the concept of Advance Java Programming (AJP) that should be considered and it should be

properly brought up in the report and start finding information and everything related to our topics of Micro-Project. We started discussing the concepts that are to be covered in the Micro-Project to perfectly complete it without any changes to be made in it again and again. We decided to divide the work between us and work together as a team to complete the Micro-Project on the given time.

Week: 5 Duration: 1 HR

Today, we started designing the over-view of our Micro-Project that is Text Editor. First we understood the concept and than wrote down the code according to the output which we designed.

Week: 6 Duration: 1 HR

Today, We divided the Micro-Project to each group member. We decided to make a list of classes, Listeners, etc that should be involved. We worked on the Micro-Project coordinating each other and confirming everything before doing anything.

Week: 7 Duration: 1 HR

Today, we designed to make the home page (i.e first page) of the Micro-Project in a book roughly.

Week: 8 Duration: 1 HR

As we designed the front page the last week, today we decided to start doing it on the MS Word and start creating the soft copy. Also we were doing our work on the side.

Week: 9 Duration: 1 HR

As we decided to make a menu-driven program it became easy for us to divide the work. Then we selecting and gathering information about all the classes, Listeners, etc which were used in the execution of the Program which were used in the Micro-Project.

Week: 10 Duration: 1 HR

In this Week, We decided to show our Micro-Project to Ma'am. We got a good feed back from Ma'am but also we got some changes to do in the diagrams. So we decided to finally complete it on Week 11 and confirm it from Ma'am again and than represent it before the class.

Week: 11 Duration: 1 HR

We finally completed our report and showed it to Ma'am and Ma'am finally approved it and we explained and gave the presentation report to everyone one. I started searching the best possible way that can be implemented.

Week: 12 Duration: 1 HR

I finally completed my work and explained the report to my fellow members. Everybody accepted and appreciated the work. Now, the final work was to create a report on the Micro-Project which we decided to make on the upcoming week.

Week: 13 Duration: 1 HR

Ma'am instructed us the format of the report and according to that format we started creating the report. Ma'am told us to submit the report on 31st December 2021.

Week: 14 Duration: 1 HR

The report was properly completed in the right format and we took the hard copy of it.

Week: 15 Duration: 1 HR

We submitted the report and gave a seminar on our Micro-Project.

Week: 16 Duration: 1 HR

Ma'am appreciated us for such hard word and explained us why these Micro-Projects are necessary for our evaluation. Thus, creating such projects boosts our Communication skills, presentation skills. It also gives us an experience of how to work in a team.

Student name:- Ayesha Loladia.

Week: 1 Duration: 1 HR

Today, during the Advance Java Programming (AJP) lecture, ma'am started instructing about the rules of Micro-Project like what all information we have to add in the report and told us to form groups of two students or maximum of three students for the micro-project, and specified that the group strength should not exceed more than three students. And told us to search the micro-project topic, the topic should be either related to management, text editor etc. And told that the micro-project should encompass two or more Cos which are in fact, an integration of PROs, UOs, and ADOs.

Week: 2 Duration: 1 HR

Today, She added that each group member will have to maintain a dated diary consisting of individual contribution in the project work and give a seminar presentation of it before submission. The total duration of the micro-project should not be less than 16 Weeks engagement hours during the course, Per Week should consist of one hour information of the progress in the report. And the micro-project should be submitted before the end of the semester to develop the industry oriented Cos. Then we formed group of three members for the Micro-Project.

Following are my team-members:

1) Aditya Chaoudhary (19406).
2) Arisha Rakhangi (19420).

Week: 3 Duration: 1HR

Today, we started searching the micro-project topic on the internet. We found many topics like Airline reservation system, Text Editor, Course management system, Data visualization software, Electricity billing system, e-Healthcare management system, Email client software, Library management system, Network packet sniffer, Online bank management system, Online medical management system, Online quiz management system, Online Survey System, Stock management system etc.. We selected the topic ***"Text Editor",*** because we thought this was something different and interesting topic.

Week: 4 Duration: 1 HR

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the Micro-Project to perfectly complete it without any changes to be made in it again and again. We decided to divide the work between us and work together as a team to complete the Micro-Project on the given time.

Week: 5 Duration: 1 HR

Today, we started designing the over-view of our Micro-Project that is Text Editor. First we understood the concept and than wrote down the code according to the output which we designed.

Week: 6 Duration: 1 HR

Today, We divided the Micro-Project to each group member. We decided to make a list of classes, Listeners, etc that should be involved. We worked on the Micro-Project coordinating each other and confirming everything before doing anything.

Week: 7 Duration: 1 HR

Today, we designed to make the home page (i.e first page) of the Micro-Project in a book roughly.

Week: 8 Duration: 1 HR

As we designed the front page the last week, today we decided to start doing it on the MS Word and start creating the soft copy. Also we were doing our work on the side.

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We finally completed our report and showed it to Ma'am and Ma'am finally approved it and we explained and gave the presentation report to everyone one. I started searching the best possible way that can be implemented.

Week: 12 Duration: 1 HR

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Week: 13 Duration: 1 HR

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Week: 14 Duration: 1 HR

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Week: 16 Duration: 1 HR

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Student name:- Arisha Rakhangi.

Week: 1 Duration: 1 HR

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Week: 2 Duration: 1 HR

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1) Aditya Chaoudhary (19406).
2) Loladia Ayesha (19416).

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Today, we started searching the micro-project topic on the internet. We found many topics like Airline reservation system, Text Editor, Course management system, Data visualization software, Electricity billing system, e-Healthcare management system, Email client software, Library management system, Network packet sniffer, Online bank management system, Online medical management system, Online quiz management system, Online Survey System, Stock management system etc.. We selected the topic ***"Text Editor",*** because we thought this was something different and interesting topic.

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Week: 12 Duration: 1 HR

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