26/2/21

Q1 Creating label, button and Textfield in a Frame using AWT

Ans

```java
import java.awt.*;
import java.awt.event.*;
public class AWTExample extends WindowAdaptor {
        Frame f;
        AWTExample () {
                f = new Frame ();
                f. addWindowListener (this);
                Label l = new Label ("Employee id : ");
                Button b= new Button ("Submit");
                TextField t = new TextField ();
                l. setBounds (20, 80, 80, 30);
                t. setBounds (20, 100, 80, 30);
                b. setBounds (100, 100, 80, 30);
                f. add (b);
                f. add (l);
                f. add (t);
                f. setSize (400, 300);
                f. SetTitle ("Employee info");
                f. setLayout (NULL);
                f. setVisible (true);
        }
        public void WindowClosing (WindowEvent e) {
                System. exit (0);
        }
        public static void main (String [] args) {
                AWTExample awt_obj = new AWTExample();
        }
}
```

Employee-Id

[365]   [Submit]

Q2

```java
import java.awt.*;
import java.awt.event.*;
public class EventHandling extends WindowAdaptor
    implements ActionListener {
        Frame f;
        TextField tf;
        EventHandling () {
            f = new Frame ();
            f.addWindowListener (this);
            tf = new TextField ();
            tf.setBounds (60,50, 170,20);
            Button b= new Button ("Clickme");
            b.setBounds (100, 120, 80, 30);
            b.addActionListener (this);
            f.add (b);
            f.add (tf);
            f.setSize (300,300);
            f.setLayout (null);
            f.setVisible (true);
        }
        public void actionPerformed (ActionEvent e) {
            tf.setText ("Welcome");
        }
        public void WindowClosing (WindowEvent e) {
            System.exit (0);
        }
        public static void main (String args[]) {
            new EventHandling ();
        }
```

O/P →

| Welcome |

| ClickMe |

```java
3) import java.io.*;
   public class ByteArrayInput {
      public static void main (String [] args)
                            throws IOException {
         byte [] buf = {35, 36, 37, 38};
         ByteArrayInputStream byt = new ByteArrayInput
                                    Stream (buf);

         int K=0;
         while ((K = byt.read()) != -1) {
            char ch = (char) K;
            S.OP.ln ("ASCII value of character
                     is : "+K+ " ;Special Character
                     is:" +ch);
         }
      }
   }
```

O/P

```
ASCII value of character is :35 ; Special Character is: #
                           36;                          $
                           37;                          .
                           38;                          &
```

```java
6) Import java.io.*;
   public class FileEx {
      PSVm (String cougs []) throws IOException {
         FileInputStream fin = new File.InputStream.
                               ("Example.txt");

         int content;
         SOP ln("Remaining bytes that can be read:"
                + fin.available ());
         Content = fin.read ();
```

```
SOP ln. ((char) content + " ");
SOP ln (content + " ");
SOP ln ("Remaining Bytes that can be read :"+
                        fin.available ());
SOP ln ("
                            + fin.available ());

}

}

O/P                    file     ayman Amjad 3456
Remaining Bytes than can be read : 16
a
97
Remaining                              : 15
                                       : 15


5) Import java. io. FileInput Stream;
   import java. io. IOException;
   public class File Ex2 {
          PSUM (String a[]) Throws. IOException {
          O   File Input Stream fin = new
                              File Input Stream ("Example.txt
                                                          ")

              Byte [] bytes = new byte [20];
              int i;
              char c;
              i = fin. read (bytes);
              SOP. ln ("Number of bytes read :"+i);
              SOP ("bytes read : ");
              for (byte b: bytes) {
                     c = (char) b;
                     SOP (c);

}  }                 }
```

O/P

Number of bytes read: 16
bytes read: ~~cgman~~ Amjad 3456

26.02.24