LAB : 4

OBJECTIVE :

Create an

1. WAP to Access URL (a file from url).
2. WAP to Create a List with Images.

Requrements :

(a) Windows PC (Windows 7/8/10) / Mac

(b) JDK 1.5

(c) Java Wireless Toolkit 2.5.2

Implementation :

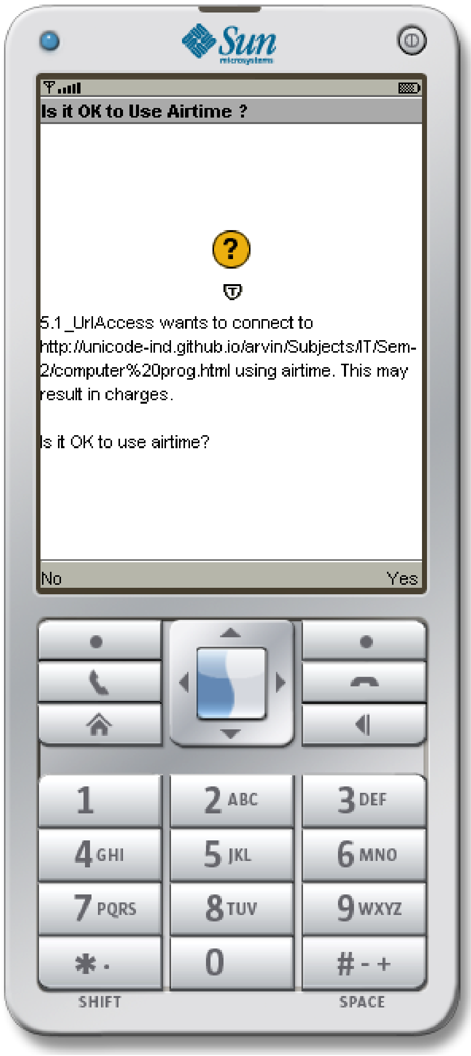
a) WAP to Access URL

UrlAccess.java :

```
import java.io.*;
import javax.microedition.io.*;
import javax.microedition.lcdui.*;
import javax.microedition.midlet.*;

public class UrlAccess extends MIDlet {
  private Display display;
  String url = "http://unicode-ind.github.io/arvin/Subjects/IT/Sem-2/computer%20prog.html";
```

```
public UrlAccess() {
  display = Display.getDisplay(this);
}

public void startApp() {
  try {
    connection(url);
  } catch (IOException e) {
    System.out.println("IOException " + e);
    e.printStackTrace();
  }
}
public void pauseApp() {}
public void destroyApp(boolean unconditional) {}
void connection(String url) throws IOException {
  StreamConnection sc = null;
  InputStream is = null;
  StringBuffer buffer = new StringBuffer();
  TextBox access;
  try {
    sc = (StreamConnection)Connector.open(url);
    is = sc.openInputStream();
    int chars;
    while ((chars = is.read()) != -1) {
      buffer.append((char) chars);
    }
    System.out.println(buffer.toString());
    access = new TextBox("Access Text", buffer.toString(), 1024, 0);
  } finally {
    if (is != null) {
      is.close();
      }
      if (sc != null) {
        sc.close();
      }
    }
    display.setCurrent(access);
  }
}
```

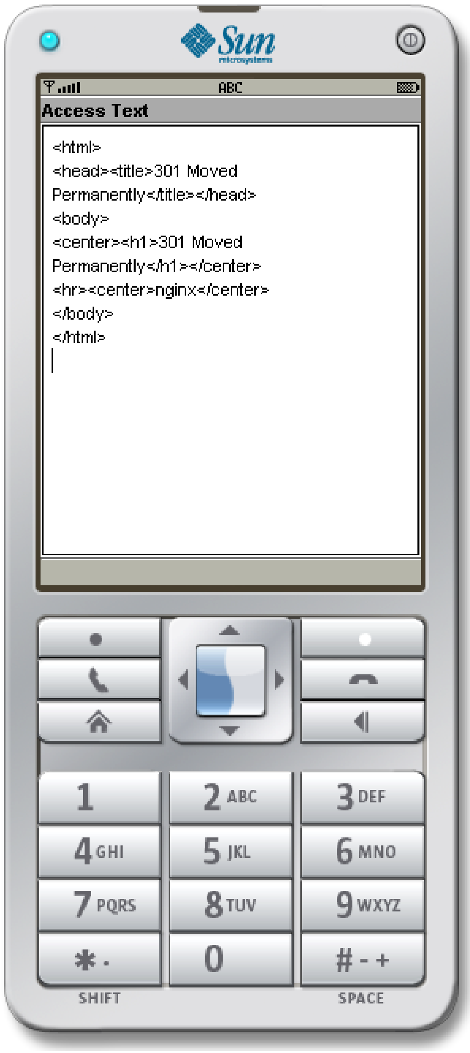
Output :



Is it OK to Use Airtime ?

5.1_UrlAccess wants to connect to http://unicode-ind.github.io/arvin/Subjects/IT/Sem-2/computer%20prog.html using airtime. This may result in charges.

Is it OK to use airtime?



Access Text

```
<html>
<head><title>301 Moved
Permanently</title></head>
<body>
<center><h1>301 Moved
Permanently</h1></center>
<hr><center>nginx</center>
</body>
</html>
```

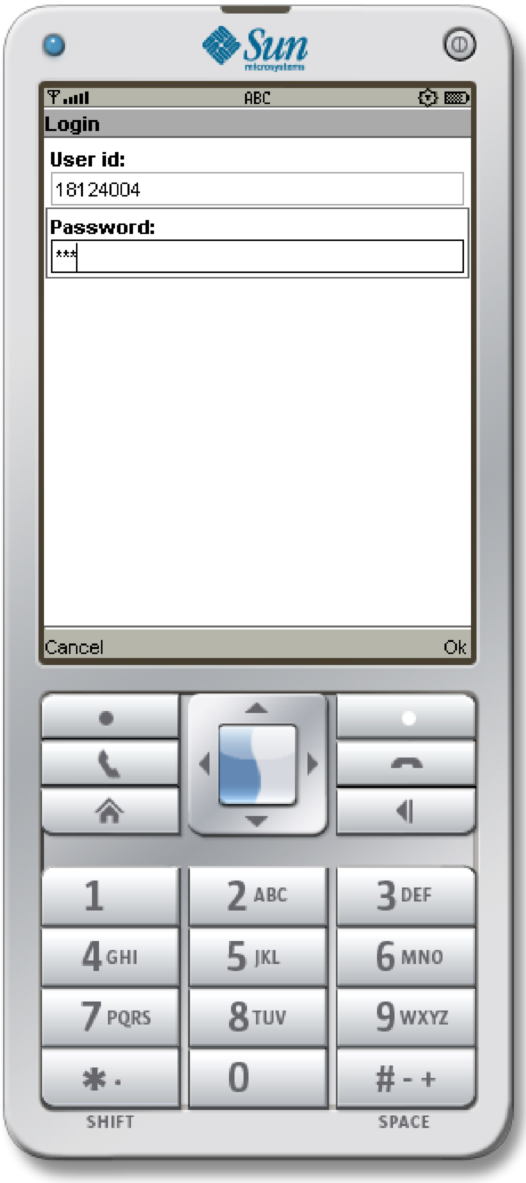
b) WAP to Create a List with Images.

ListWithImages.java :

```
import javax.microedition.lcdui.*;
import javax.microedition.midlet.*;

public class ListWithImages extends MIDlet implements CommandListener {
    private Display display;
    private Form form;
    private TextField txtname, txtpassword;
    private Command Cmdok, Cmdcancel, ba, select;
    private List lst;

    public ListWithImages() {
            display = Display.getDisplay(this);

    }

    public void startApp() {
            form = new Form("Login");
            txtname = new TextField("User id:", "", 250, TextField.ANY);
            txtpassword = new TextField("Password:", "", 250, TextField.PASSWORD);
            Cmdok = new Command("Ok", Command.OK, 0);
            Cmdcancel = new Command("Cancel", Command.CANCEL, 0);

            form.append(txtname);
            form.append(txtpassword);
            form.addCommand(Cmdok);
            form.addCommand(Cmdcancel);
            form.setCommandListener(this);
            display.setCurrent(form);

    }

    public void pauseApp() {}

    public void destroyApp(boolean unconditional) {}

    public void commandAction(Command c, Displayable s) {
            if (c == Cmdcancel) notifyDestroyed();
            //else if (c == Cmdok) showlist();

            else if (c == Cmdok) check();
            else if (c == ba) display.setCurrent(form);
```

```
                else if (c == select) showselecteditem();
        }

        public void check() {
                if (txtname.getString().equals("18124004") &&
txtpassword.getString().equals("123")) {
                        showlist();
                } else {
                        Alert al = new Alert("Incorrect", "Invalid login!", null, AlertType.ERROR);
                        display.setCurrent(al);
                }
        }

        public void showlist() {
                ba = new Command("Back", Command.BACK, 0);
                select = new Command("Select", Command.OK, 0);
                lst = new List("Select the item:", List.EXCLUSIVE);
                Image m = null;
                try {m = Image.createImage("/p2.jpg");} catch (Exception e) {}
                lst.append("Item 1", m);
                lst.append("Item 2", m);
                lst.append("Item 3", m);
                lst.append("Item 4", m);
                lst.append("Item 5", m);
                lst.addCommand(ba);
                lst.addCommand(select);
                lst.setCommandListener(this);
                display.setCurrent(lst);
        }

        public void showselecteditem() {
                String selectedvalue = lst.getString(lst.getSelectedIndex());
                System.out.println(selectedvalue);
        }

}
```

Output :



ABC

Login

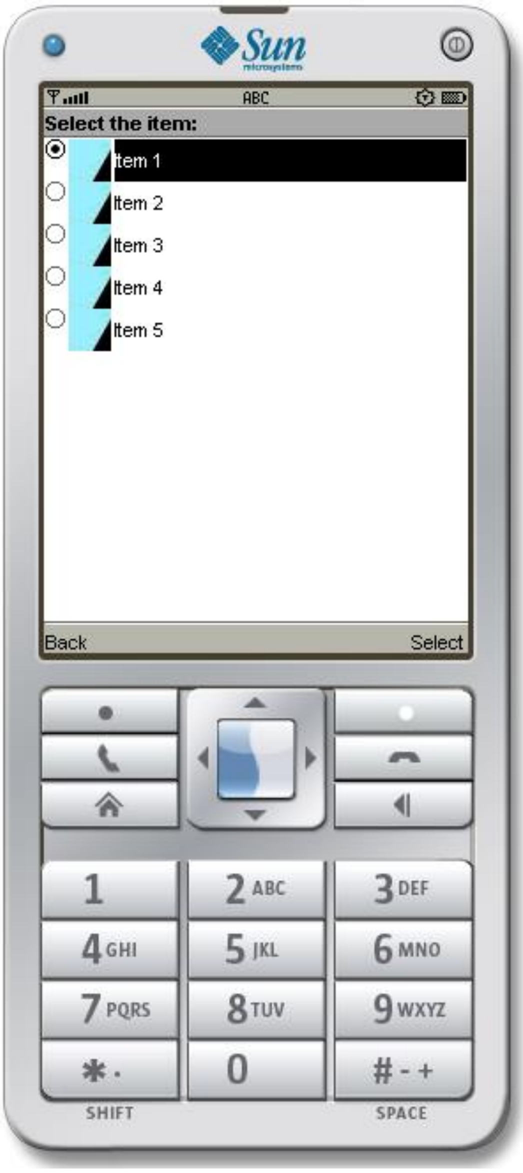
User id:

18124004

Password:

***

Cancel Ok



ABC

Select the item:

● Item 1
○ Item 2
○ Item 3
○ Item 4
○ Item 5

Back Select