

NAME:- KARAN DUBEY

CLASS:- B.E – 4

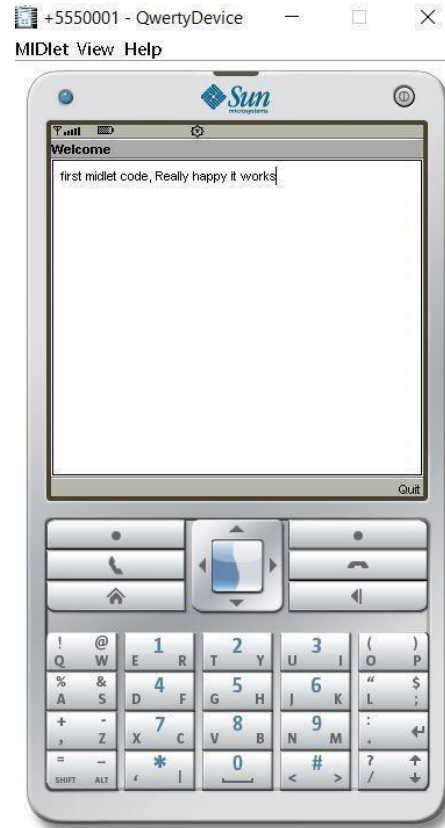
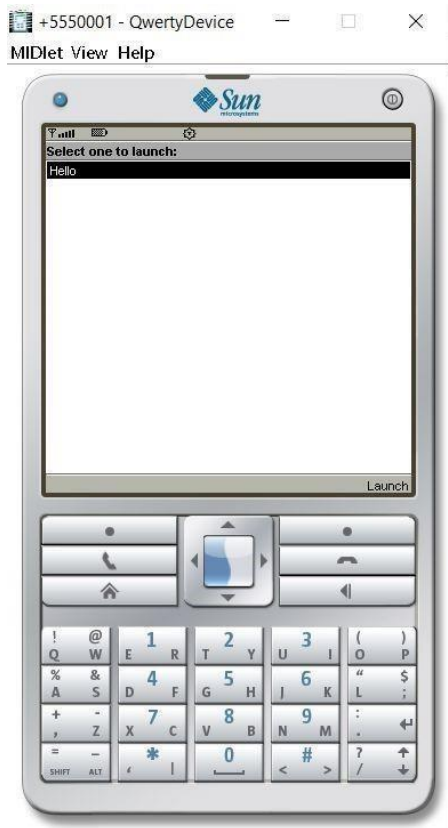
ROLL NO:- 04

BATCH:- A

Experiment 1a HelloWorld

Code-

```
import javax.microedition.midlet.*; import
javax.microedition.lcdui.*; public class Hello extends MIDlet
implements CommandListener
{
private Display display ;
private TextBox textBox ; private Command
quitCommand; public
void startApp()
{
display = Display.getDisplay(this);
quitCommand = new Command("Quit", Command.SCREEN, 1); textBox = new
TextBox("Welcome", "first midlet code, Really happy it works", 40, 0);
textBox .addCommand(quitCommand); textBox .setCommandListener(this);
display .setCurrent(textBox );
}
public void pauseApp()
{
}
public void destroyApp(boolean unconditional)
{
}
public void commandAction(Command choice, Displayable displayable)
{
if (choice == quitCommand)
{
destroyApp(false);
notifyDestroyed();
}
}
}
```



Experiment 1b

Form Navigation & Design

Source Code:

```
import javax.microedition.midlet.*;
import javax.microedition.lcdui.*;
public class FormNavigation extends MIDlet implements
CommandListener
{
    private Form f1,f2;    private TextField tf1,tf2;
    private Display display; private Command cmd = new
    Command("Navigate",Command.OK,0); private Command exit_cmd = new
    Command("Exit",Command.EXIT,0); public void startApp()
    {
        tf1 = new TextField("Enter your name :
        ", "", 10, TextField.ANY);    f1 = new Form("My Form 1");
        f1.append(tf1);
```

```

        f1.addCommand(cmd);
            f1.setCommandListener(this); display =
Display.getDisplay(this);
            display.setCurrent(f1);
    }

    public void pauseApp(){}
    public void destroyApp(boolean unconditional){} public void commandAction(Command c,Displayable
d) {

        if(c==cmd)
        {
            tf2 = new TextField("Your name :
",tf1.getString(),10,TextField.ANY);    f2 = new Form("My Form 2"); f2.append(tf2);
            display.setCurrent(f2);
        }
        if(c==exit_cmd){        destroyApp(false);        notifyDestroyed();
        }

    }
}

```

OUTPUT:



Experiment 1c

Immutable Image

Code:-

```
import javax.microedition.lcdui.*; import javax.microedition.midlet.*; public
class ImmutableImage extends MIDlet implements CommandListener
{
    private Command exitCommand = new Command("Exit", Command.EXIT, 1); private
    Display display; private Form form; private Image image; private
    ImageItem imageItem; public void startApp()
    { display = Display.getDisplay(this); form = new
        Form("Immutable Image"); try { image =
            Image.createImage("/image.png");
            form.append(image); display.setCurrent(form);
        }
        catch(java.io.IOException error){}
        form.addCommand(exitCommand); form.setCommandListener(this);
    } public void pauseApp() {} public void destroyApp(boolean unconditional)
    {} public void commandAction(Command c,
        Displayable s)
    { if (c == exitCommand) { destroyApp(false);
        notifyDestroyed();
    }
    }
}
```

Output:



Experiment 1d

Mutable Image

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

public class DrawRectangle extends MIDlet {

    public void startApp () {

        Display.getDisplay (this).setCurrent (new DrawingDemoCanvas ());
    }

    public void pauseApp () {}

    public void destroyApp (boolean forced) {}
}

class DrawingDemoCanvas extends Canvas { public void paint
(Graphics g) {

    g.setColor (255, 0, 0);
    g.fillRect (0, 0, getWidth (), getHeight ());
    g.setColor (0, 0, 255);
    g.fillRect (20, 30, 200, 80);
} }
```

OUTPUT:

+5550000 - De...
MIDlet View Help



Experiment 1e

Ticker

Source Code:

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

    public class TickerProgram extends MIDlet implements CommandListener
{
    private Command exitCommand = new Command("Exit", Command.EXIT, 1 );

    private Display display;          public void startApp()
{
    display = Display.getDisplay(this);
        TextBox t = new TextBox("Hello", "Welcome to MIDP Programming",
256, 0);
        Ticker aTicker = new Ticker("ticker"); t.setTicker(aTicker);
        t.addCommand(exitCommand);
        t.setCommandListener(this);

        display.setCurrent(t);
    }
    public void pauseApp() {} public void destroyApp(boolean unconditional) {}

        public void commandAction(Command c, Displayable s)
        {
            if (c == exitCommand) {          destroyApp(false);
notifyDestroyed();
        }
    }
}
```

OUTPUT:



Experiment 1f

Interactive Gauge/Non Interactive Gauge

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

public class gauge extends MIDlet implements CommandListener{

    private Form form; private Display display; private Command back;

    private String label1, label2;
```

```

private Gauge gauge1, gauge2;

    public gauge(){ label1 = new String("This is the Interactive and Non- Interactive
Gauge"); gauge1 = new Gauge("Interactive- Values Will
Change.", true, 7, 40); gauge2 = new Gauge("Graph",false,100,40);
    }

    public void startApp(){
        Form form = new Form("GaugeExample"); back = new Command("Exit",
Command.EXIT, 0);    display = Display.getDisplay(this);

        form.append(label1); form.append(gauge1);

        form.append(gauge2);

    form.addCommand(back);
    form.setCommandListener(this);
    display.setCurrent(form);
    }

    public void pauseApp(){}

    public void destroyApp(boolean unconditional){ notifyDestroyed();
    }

    public void commandAction(Command c, Displayable s){ String label =
c.getLabel(); if (label.equals("EXIT")){ destroyApp(false);
    }
    }
    }

```

OUTPUT:



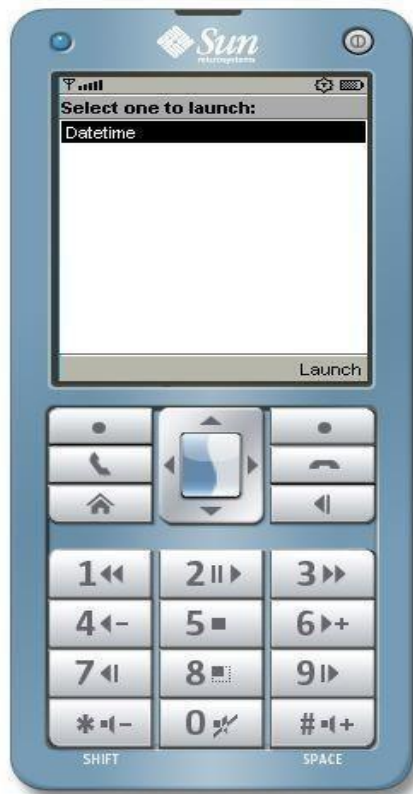
Experiment 1g

Date and Time Display

```
import java.util.*;
import javax.microedition.lcdui.*; import
javax.microedition.midlet.MIDlet; public class
Datetime extends MIDlet
{
private Display display; protected
void startApp()
{
display = Display.getDisplay(this);
Form form = new Form("Demo");
```

```
DateField timeOnly = new DateField("Time", DateField.DATE_TIME, TimeZone.getTimeZone("IST"));
form.append(timeOnly); display.setCurrent(form);
}
protected void pauseApp() {}
protected void destroyApp(boolean unconditional) {}
}
```

+55500...
MIDlet View Help



+55500...
MIDlet View Help



+55500...
MIDlet View Help



+55500...
MIDlet View Help

