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CLASS:- B.E – 4

ROLL NO:- 04

BATCH:- A

Experiment 2a Basic Arithmetic Calculator

```
import javax.microedition.lcdui.*; import
javax.microedition.midlet.*; import java.io.*;
public class calculator extends MIDlet
implements CommandListener { private
Form form; private Display display;

    private TextField

        input1, input2; private Command

add,        sub,

mul,div; private

StringItem item;

public calculator()
{
    } public void startApp()

{
        display      =

Display.getDisplay(this); Form form = new

Form("Calculator"); item = new

StringItem("Answer = ",

    "");

    input1 = new TextField("First Number:", "", 30, TextField.NUMERIC);

input2 =        new    TextField("Second    Number:",    "",    30,

TextField.NUMERIC);

form.append(input1); form.append(input2); add = new

Command("Addition",

Command.OK, 1); sub = new Command("Subtraction", Command.OK, 1);

mul

= new Command("Multiplication", Command.OK, 1); div = new
```

```
Command("Division", Command.OK, 1);    form.addCommand(add);
form.addCommand(sub); form.addCommand(mul); form.addCommand(div);
form.append(item);
```

```
form.setCommandListener(this);
```

```
display.setCurrent(form);
}
```

```
public void pauseApp() { }
```

```
public void destroyApp(boolean uncondn)
{
    notifyDestroyed(
```

```
); } private
```

```
void calculate()
```

```
{ int one=Integer.parseInt(input1.getString());
int two= Integer.parseInt(input2.getString()); int
result=one+two; item.setText( result +
""
```

```
);
} private void calculate1(
```

```
) { int one
```

```
=
```

```
Integer.parseInt(input1.getString()); int two =
Integer.parseInt(input2.getString()); int result
= one - two; item.setText(result + "");
} private void calculate2()
```

```
{ int one =
Integer.parseInt(input1.getString()); int two =
Integer.parseInt(input2.getString()); int result
= one * two; item.setText(result + "");
} private void calculate3()
```

```
{ int one =
```

```

Integer.parseInt(input1.getString()); int two =
Integer.parseInt(input2.getString()); int result
= one / two; item.setText(result + "");

}

public void commandAction(Command c, Displayable d)
{
    String label =
c.getLabel(); if
(label.equals("Addition"))

    {
        calculate();

    }

    else if (label.equals("Subtraction"))
    {
        calculate1();

    }

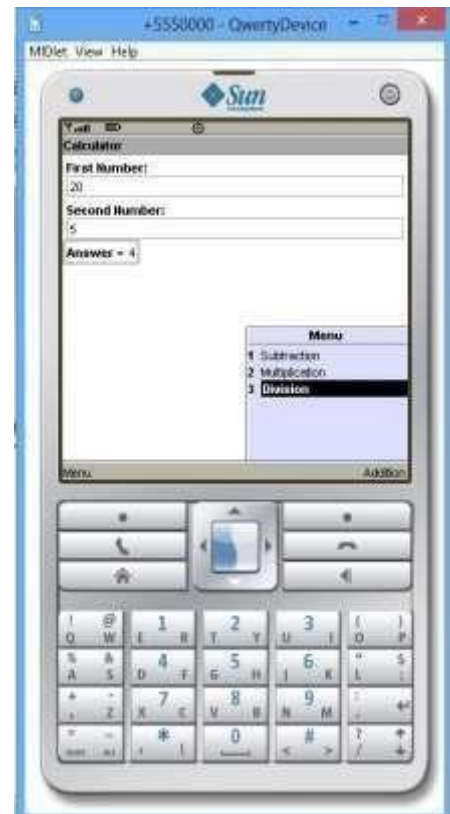
    else if (label.equals("Multiplication"))
    {
        calculate2();
        form.append("The Answer is:");
    }

    else if (label.equals("Division"))
    {
        calculate3();
        form.append(" The
        Answer
        is:");
    }
}
}

```

OUTPUT:





Experiment 2b Loan Calculator (CI)

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

```
public class LoanEMICalculator extends MIDlet implements CommandListener
```

```
{
```

```
    Display d;
```

```
    Form f;
```

```
    TextField t1,t2,t3;    Command calculate,exit;    public void startApp() {
```

```
        d=Display.getDisplay(this);        f= new Form("Loan EMI Calculator");
```

```
        t1=new TextField("Principal Amount : ", "", 100, TextField.NUMERIC);
```

```
        t2=new TextField("Interest Rate (in ppa) : ", "", 100, TextField.NUMERIC);
```

```
        t3=new TextField("Tenure (in months) : ", "", 100, TextField.NUMERIC);
```

```
        exit=new Command("Exit",Command.EXIT,0);        calculate=new
```

```
        Command("Calculate",Command.OK,1);
```

```

        f.append(t1);
        f.append(t2);
        f.append(t3);
        f.addCommand(calculate);
        f.addCommand(exit);
        f.setCommandListener(this);

d.setCurrent(f);    }    public void pauseApp() { }
public void destroyApp(boolean unconditional) { }
public void commandAction(Command
c,Displayable
d)
    {
if(c==calculate)
    {
        float                principal,interest,tenure,emi;
principal=Float.parseFloat(t1.getString());
interest=Float.parseFloat(t2.getString());
tenure=Float.parseFloat(t3.getString());
emi=(principal*(1+((interest/100)*(tenure/12))))/tenure;        f.append("EMI
="+emi+"\n");
    }    if
(c == exit)
    {
destroyApp(false);        notifyDestroyed();
    }
}
}

```

Output:

+5550000 - De...
MIDlet View Help

Loan EMI Calculator

Principal Amount :
1000

Interest Rate (in ppa) :
12

Tenure (in months) :
2

EMI = 510.0

Exit Calculate

1 2 ABC 3 DEF
4 GHI 5 JKL 6 MNO
7 PQRS 8 TUV 9 WXYZ
* . 0 # - +
SHIFT SPACE

Inocme tax Calculator

```

CODE: import javax.microedition.lcdui.*;

import javax.microedition.midlet.*; public

class incomecacli extends MIDlet

implements CommandListener { Display d;

Form f; TextField t1; Command

calculate,exit; public void startApp() {

d=Display.getDisplay(this); f= new

Form("Enter Your Annual Income To Chek

IncomeTax"); t1=new TextField("Annual

Income :", "", 100, TextField.NUMERIC);

exit=new

Command("Exit", Command.EXIT, 0);

calculate=new

Command("Calculate", Command.OK, 1);

f.append(t1); f.addCommand(calculate);

f.addCommand(exit);

f.setCommandListener(this); d.setCurrent(f);

} public void pauseApp() {} public void

destroyApp(boolean unconditional) {} public

void commandAction(Command

c, Displayable d) { if(c==calculate) { float

income,tax;

income=Float.parseFloat(t1.getString()) ;

```



```
f.append("Income Tax =  
"+(income*0.05)+"\n"); } if (c == exit) {  
destroyApp(false); notifyDestroyed(); } } }
```

Output:

