Bahria University,

Karachi Campus



LAB EXPERIMENT NO.

**04**

LIST OF TASKS

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| --- | --- |
| TASK NO | OBJECTIVE |
| 1 | **Create an application which can display a Toast message by pressing a button.** |
| 2 | **Create an application having three buttons. Bind those buttons with the same callback method. On pressing any button, identify which button was pressed.** |
| 3 | **Create an application which takes a string message from user and create a toast of it on pressing button.** |
| 4 | **Create a calculator application for two integers.** |

Task 1: **Create an application which can display a Toast message by pressing a button.**

**Design:**

Screens screenshot of a computer

Description automatically generated with low confidence

**Activity Code:**

public class MainActivity extends AppCompatActivity {

private Button btn;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

btn=findViewById(R.id.button);

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(MainActivity.this, "Click me", Toast.LENGTH\_SHORT).show();

}

});}}

**Output:**

A screen shot of a cell phone

Description automatically generated with medium confidence

Task 2: **Create an application having three buttons. Bind those buttons with the same callback method. On pressing any button, identify which button was pressed.**

**Design:**

A screenshot of a computer

Description automatically generated with medium confidence

**Code:**

public class MainActivity extends AppCompatActivity {

private Button btn;

private Button btn2;

private Button btn3;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

btn=findViewById(R.id.button);

btn2=findViewById(R.id.button2);

btn3=findViewById(R.id.button3);

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(MainActivity.this, ""+btn.getText(), Toast.LENGTH\_SHORT).show();

}

});

btn2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(MainActivity.this, ""+btn2.getText(), Toast.LENGTH\_SHORT).show();

}

});

btn3.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(MainActivity.this, ""+btn3.getText(), Toast.LENGTH\_SHORT).show();

}

});

}

}

**Output:**

|  |  |  |
| --- | --- | --- |
| A screenshot of a phone  Description automatically generated with medium confidence | A screenshot of a phone  Description automatically generated with medium confidence | A screenshot of a phone  Description automatically generated with medium confidence |

Task 3: **Create an application which takes a string message from user and create a toast of it on pressing button.**

**Design**

Screens screenshot of a computer

Description automatically generated with low confidence

**Code:**

public class MainActivity extends AppCompatActivity {

private Button btn;

private EditText txt;

@SuppressLint("MissingInflatedId")

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

btn=findViewById(R.id.button4);

txt=findViewById(R.id.editTextTextPersonName);

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(MainActivity.this, ""+txt.getText(), Toast.LENGTH\_SHORT).show();

}

}); }

}

**Output:**

A picture containing gadget, communication device, mobile device, electronic device

Description automatically generated

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Task 4: **Create a calculator application for two integers.**

**Design:**

A screenshot of a computer

Description automatically generated with medium confidence

**Code:**

public class MainActivity extends AppCompatActivity {

private Button btn;

private EditText txt;

private EditText txt2;

private EditText txt3;

@SuppressLint("MissingInflatedId")

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

btn=findViewById(R.id.button4);

txt=findViewById(R.id.editTextTextPersonName);

txt2=findViewById(R.id.editTextTextPersonName2);

txt3=findViewById(R.id.editTextTextPersonName3);

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

int num1=Integer.parseInt(""+txt.getText());

int num2=Integer.parseInt(""+txt2.getText());

int res=num1+num2;

txt3.setText(""+res);

} }); }

});

}

}

**Output:**

A screenshot of a cell phone

Description automatically generated with medium confidence