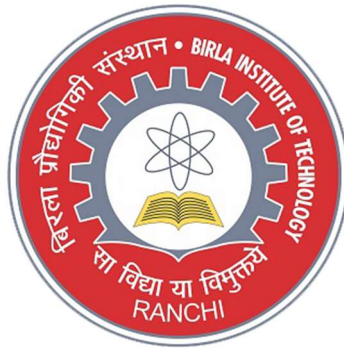


# Birla Institute of Technology, Mesra, Patna Campus



## MI-Assignment

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Roll-Btech/15044/18

Sec-CSE 6<sup>th</sup>

# *#Assignment-6*

## **Problem Statement :**

Develop an application that implements Multi-threading

## **Code :**

### **MainActivity.java**

```
import androidx.appcompat.app.AppCompatActivity;
import android.content.pm.ActivityInfo;
import android.os.Bundle;
import android.view.View;
import android.view.WindowManager;
import android.widget.Button;
import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {

    ImageView iv_background;
    Button btn_1,btn_2;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLSCREEN, WindowManager.LayoutParams.FLAG_FULLSCREEN);
```

```
setRequestedOrientation(ActivityInfo.SCREEN_ORIENTATION_PORTRAIT);
```

```
    setContentView(R.layout.activity_main);
```

```
    iv_background = findViewById(R.id.iv_background);
```

```
    btn_1 = findViewById(R.id.btn_1);
```

```
    btn_2 = findViewById(R.id.btn_2);
```

```
    btn_1.setOnClickListener(new View.OnClickListener()
```

```
    {
```

```
        @Override
```

```
        public void onClick(View v)
```

```
        {
```

```
            new Thread(new Runnable()
```

```
            {
```

```
                @Override
```

```
                public void run()
```

```
                {
```

```
                    iv_background.post(new Runnable()
```

```
                    {
```

```
                        @Override
```

```
                        public void run()
```

```
                        {
```

```
iv_background.setImageResource(R.drawable.image1);
```

```
                }
```

```
            });
```

```
        }
```

```
    }).start();
```

```
    }
```

```
});
```

```
    btn_2.setOnClickListener(new View.OnClickListener()
```

```
    {
```

```

@Override
public void onClick(View v)
{
    new Thread(new Runnable()
    {
        @Override
        public void run()
        {
            iv_background.post(new Runnable()
            {
                @Override
                public void run()
                {
                    iv_background.setImageResource(R.drawable.image2);
                }
            });
        }
    }).start();
}
});
}
}

```

### **activity\_main.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

```

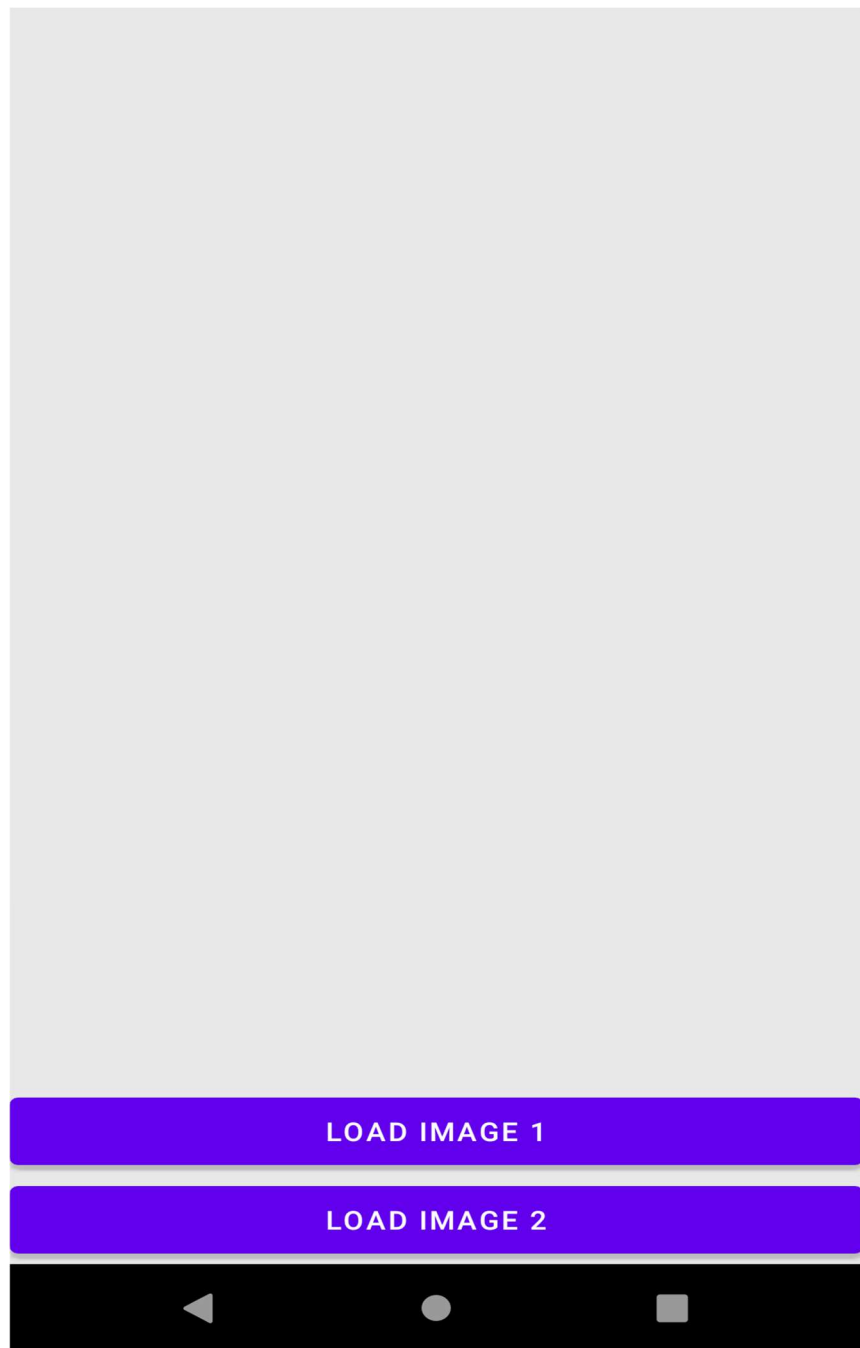
```
<ImageView
    android:id="@+id/iv_background"
    android:layout_width="0dp"
    android:layout_height="0dp"
    android:scaleType="centerCrop"
    android:layout_gravity="center"
    app:layout_constraintBottom_toTopOf="@+id/btn_1"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

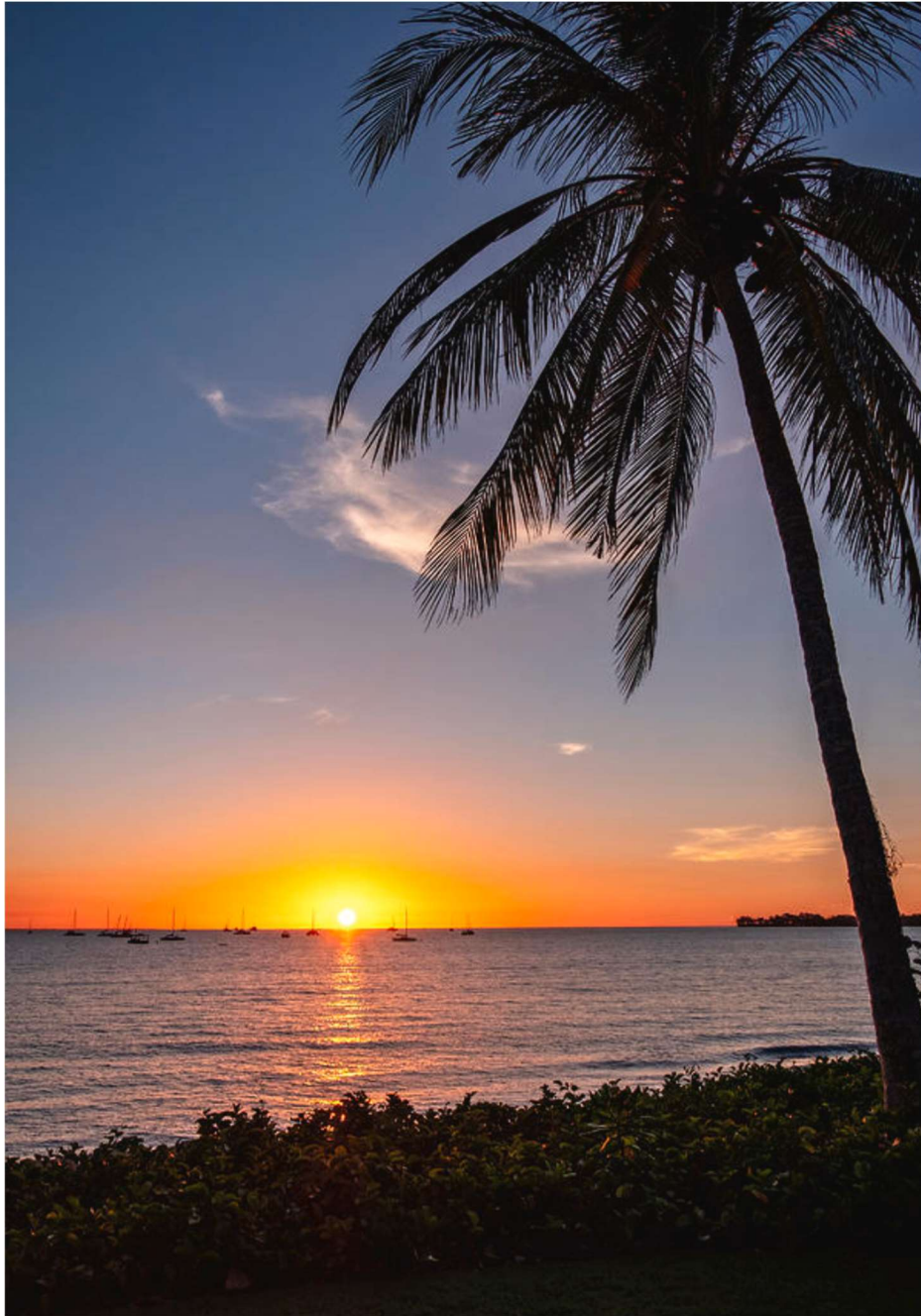
```
<Button
    android:id="@+id/btn_1"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="Load Image 1"
    app:layout_constraintBottom_toTopOf="@+id/btn_2"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent" />
```

```
<Button
    android:id="@+id/btn_2"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="Load image 2"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

**Output :**





LOAD IMAGE 1

LOAD IMAGE 2





LOAD IMAGE 1

LOAD IMAGE 2

