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Q.2] Create an Android Application to perform following string operation according to user
selection of radio button
// MainActivity.java
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  private EditText inputEditText;
  private Button operateButton;
  private TextView resultTextView;
  private RadioButton reverseRadioButton, uppercaseRadioButton, lowercaseRadioButton;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    inputEditText = findViewById(R.id.inputEditText);
    operateButton = findViewById(R.id.operateButton);
    resultTextView = findViewById(R.id.resultTextView);
    reverseRadioButton = findViewById(R.id.reverseRadioButton);
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uppercaseRadioButton = findViewById(R.id.uppercaseRadioButton);
  lowercaseRadioButton = findViewById(R.id.lowercaseRadioButton);
  operateButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
      String input = inputEditText.getText().toString();
      String result = "";
      if (reverseRadioButton.isChecked()) {
        result = reverseString(input);
      } else if (uppercaseRadioButton.isChecked()) {
         result = input.toUpperCase();
      } else if (lowercaseRadioButton.isChecked()) {
        result = input.toLowerCase();
      }
      resultTextView.setText(result);
    }
 });
private String reverseString(String input) {
  StringBuilder reversed = new StringBuilder();
  for (int i = input.length() - 1; i >= 0; i--) {
    reversed.append(input.charAt(i));
  }
```

}

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return reversed.toString();
 }
}
<!-- activity_main.xml -->
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
 xmlns:tools="http://schemas.android.com/tools"
 android:layout_width="match_parent"
 android:layout height="match parent"
 tools:context=".MainActivity">
 <EditText
    android:id="@+id/inputEditText"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter a string"
    android:layout_margin="16dp"/>
 <RadioButton
    android:id="@+id/reverseRadioButton"
    android:layout below="@id/inputEditText"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Reverse"/>
 < Radio Button
    android:id="@+id/uppercaseRadioButton"
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android:layout_below="@id/reverseRadioButton"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="Uppercase"/>
<RadioButton
  android:id="@+id/lowercaseRadioButton"
  android:layout_below="@id/uppercaseRadioButton"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:text="Lowercase"/>
<Button
  android:id="@+id/operateButton"
  android:layout below="@id/lowercaseRadioButton"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:text="Operate"
  android:layout_marginTop="16dp"/>
<TextView
  android:id="@+id/resultTextView"
  android:layout_below="@id/operateButton"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:textSize="20sp"
  android:textStyle="bold"
```

android:layout_marginTop="16dp"/>

</RelativeLayout>