



DEPARTMENT OF

COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

Experiment 5

Student Name: Anshuman Singh

UID: 20BCS2665

Branch: CSE

Section/Group: DM-902/A

Subject Name: MAD LAB

Subject Code: 20CSP-356

Aim: Create Checkbox and Display Selection in toast

Code for Login Function:

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);        setContentView(R.layout.activity_main);

    // Finding CheckBox by its unique ID
    ch=(CheckBox) findViewById(R.id.checkBox);
    ch1=(CheckBox) findViewById(R.id.checkBox2);
    ch2=(CheckBox) findViewById(R.id.checkBox3);
    ch3=(CheckBox) findViewById(R.id.checkBox4);
}

// This function is invoked when the button is pressed. public
void Check(View v) {
    String msg="";

    // Concatenation of the checked options in if
    // isChecked() is used to check whether //
    the CheckBox is in true state or not.

    if(ch.isChecked())
msg = msg + " Painting ";
    if(ch1.isChecked())        msg =
msg + " Reading ";
    if(ch2.isChecked())        msg =
msg + " Singing ";
    if(ch3.isChecked())        msg =
msg + " Cooking ";

    // Toast is created to display the //
message using show() method.
    Toast.makeText(this, msg + "are selected",
        Toast.LENGTH_LONG).show();
}
```



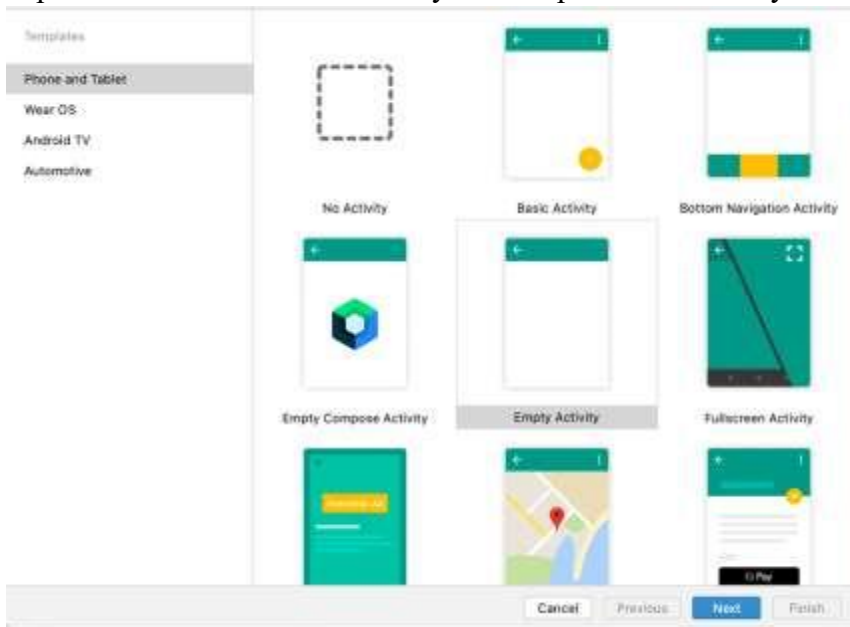
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

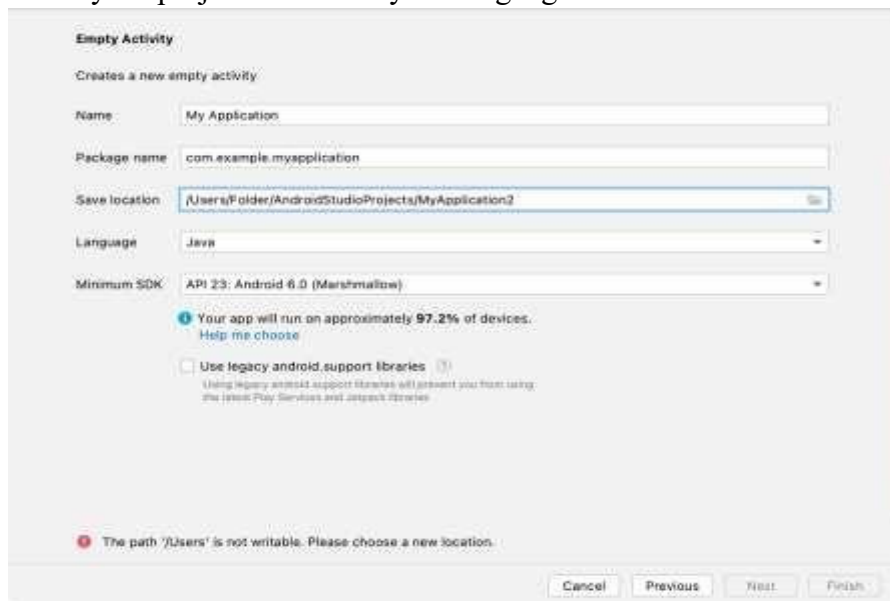
}

Steps:

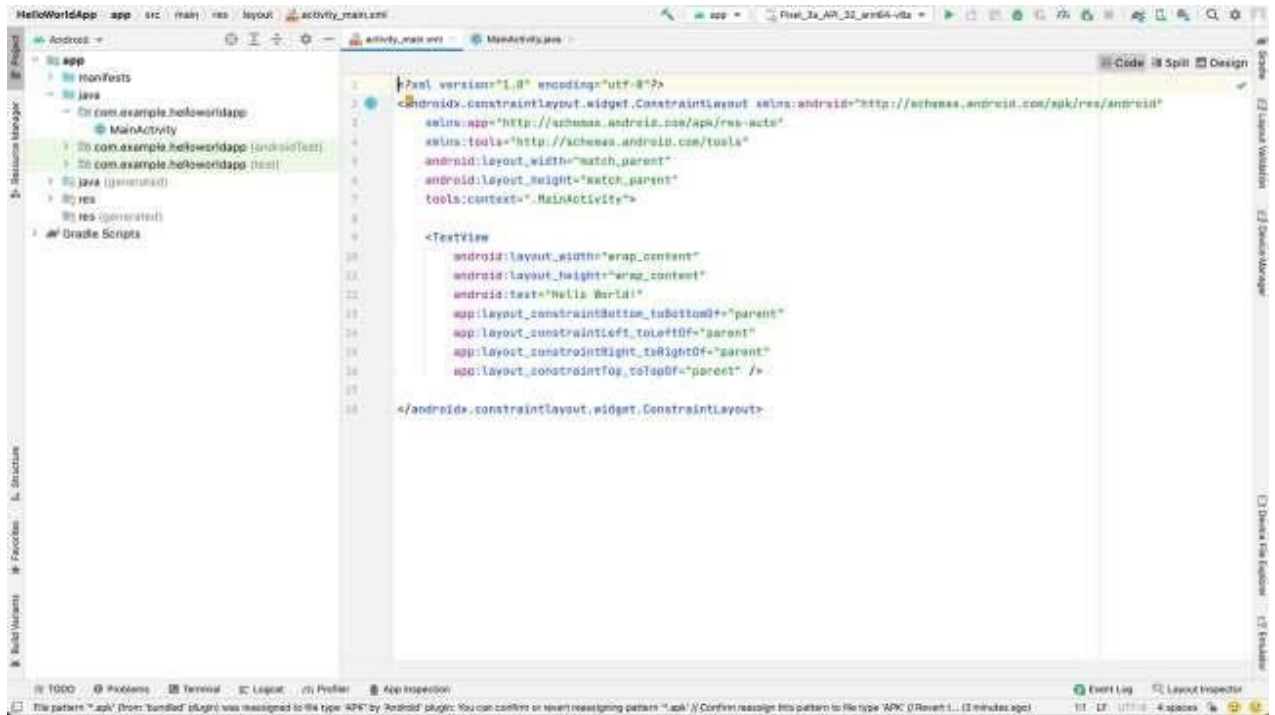
1. Open Android Studio and select your Template and Activity



2. Name your project and select your language and minimum SDK

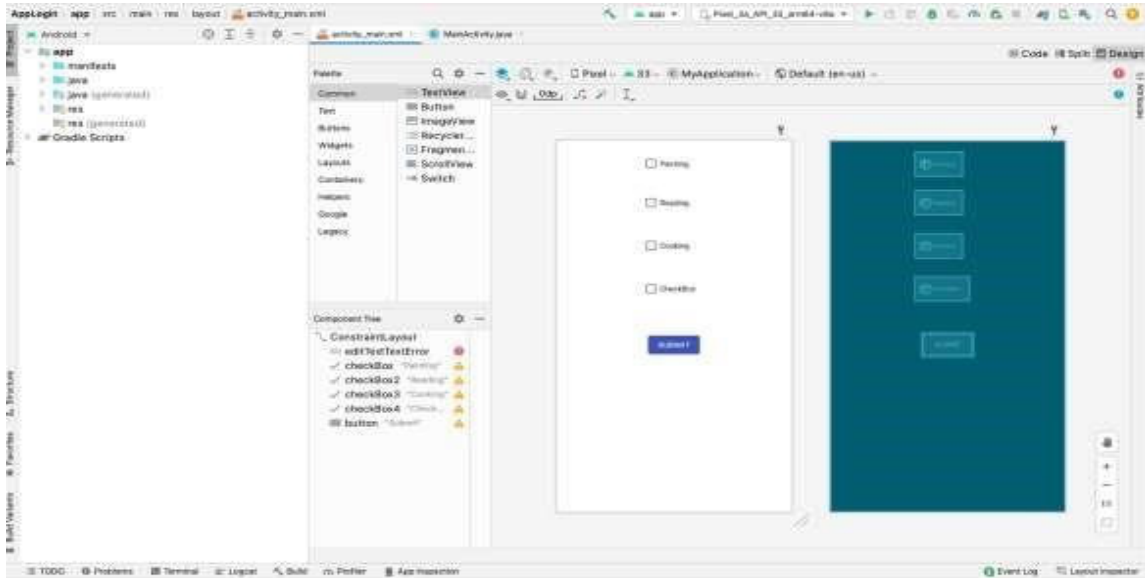


3. You will get this interface

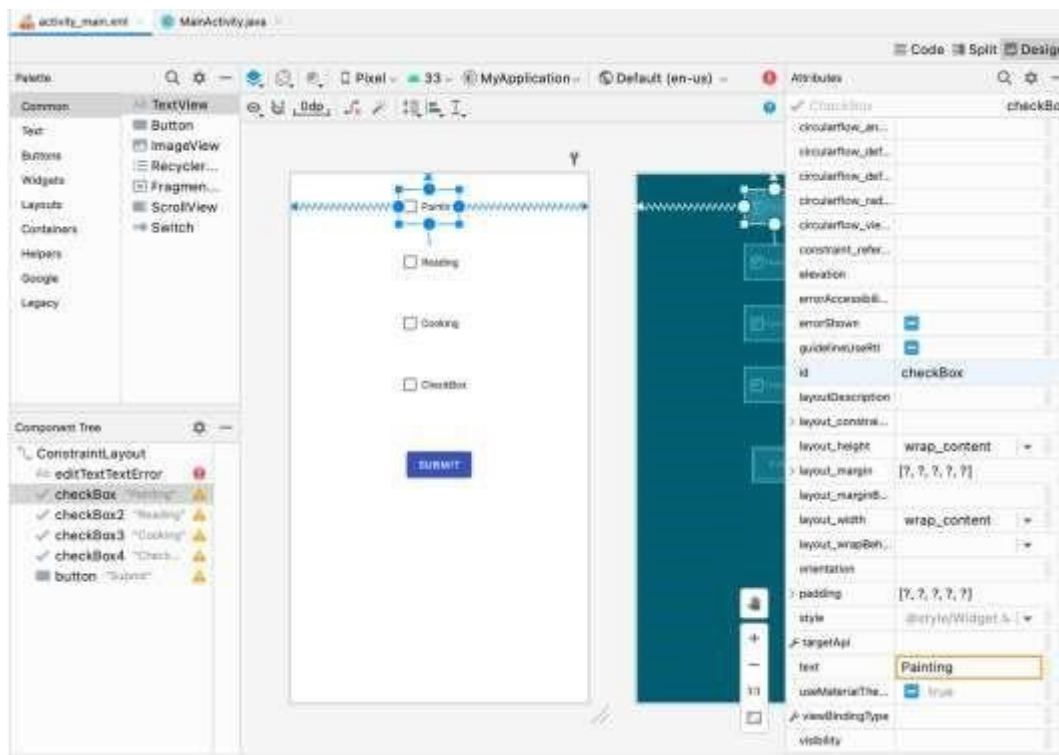


```
1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     tools:context=".MainActivity">
8
9
10
11
12
13
14     <TextView
15         android:layout_width="wrap_content"
16         android:layout_height="wrap_content"
17         android:text="Hello World!"
18         app:layout_constraintBottom_toBottomOf="parent"
19         app:layout_constraintLeft_toLeftOf="parent"
20         app:layout_constraintRight_toRightOf="parent"
21         app:layout_constraintTop_toTopOf="parent" />
22
23
24 </androidx.constraintlayout.widget.ConstraintLayout>
```

4. You can start building your application by just dragging and dropping the checkboxes



- Now, go to each checkbox and give it a unique Id and a text corresponding to it.



- Then edit your MainActivity.java in that you have to get the id of checkbox and then edit the code to check if the checkbox is checked using the if else statements. Don't forget to add this Check function to your button (onClick).



```

CheckBox (id, (int) id, (int) id)
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    // Finding checkboxes by their id like ID
    findViewById(R.id.checkBox1);
    findViewById(R.id.checkBox2);
    findViewById(R.id.checkBox3);
    findViewById(R.id.checkBox4);

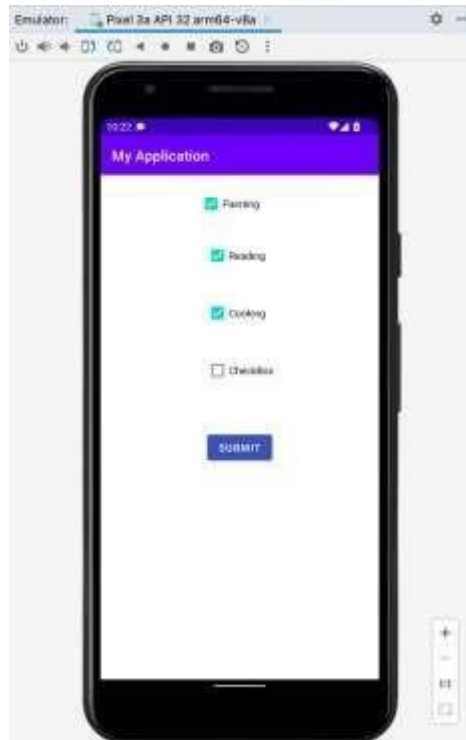
    // This function is executed when the button is pressed
    findViewById(R.id.button).setOnClickListener() {
        String msg="";

        // Implementation of the updated version of IF
        // findViewById() is used to check whether
        // the checkbox is on their state or not.

        if(mCheckBox1.isChecked())
            msg = msg + " Reading ";
        if(mCheckBox2.isChecked())
            msg = msg + " Reading ";
        if(mCheckBox3.isChecked())
            msg = msg + " Reading ";
        if(mCheckBox4.isChecked())
            msg = msg + " Reading ";
    }
}

```

- Then run your app on the emulator to test it out.





DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

8. Check the boxes and selected its will be displayed in the toast at the bottom of the screen.





DEPARTMENT OF

Discover. Learn. Empower.