

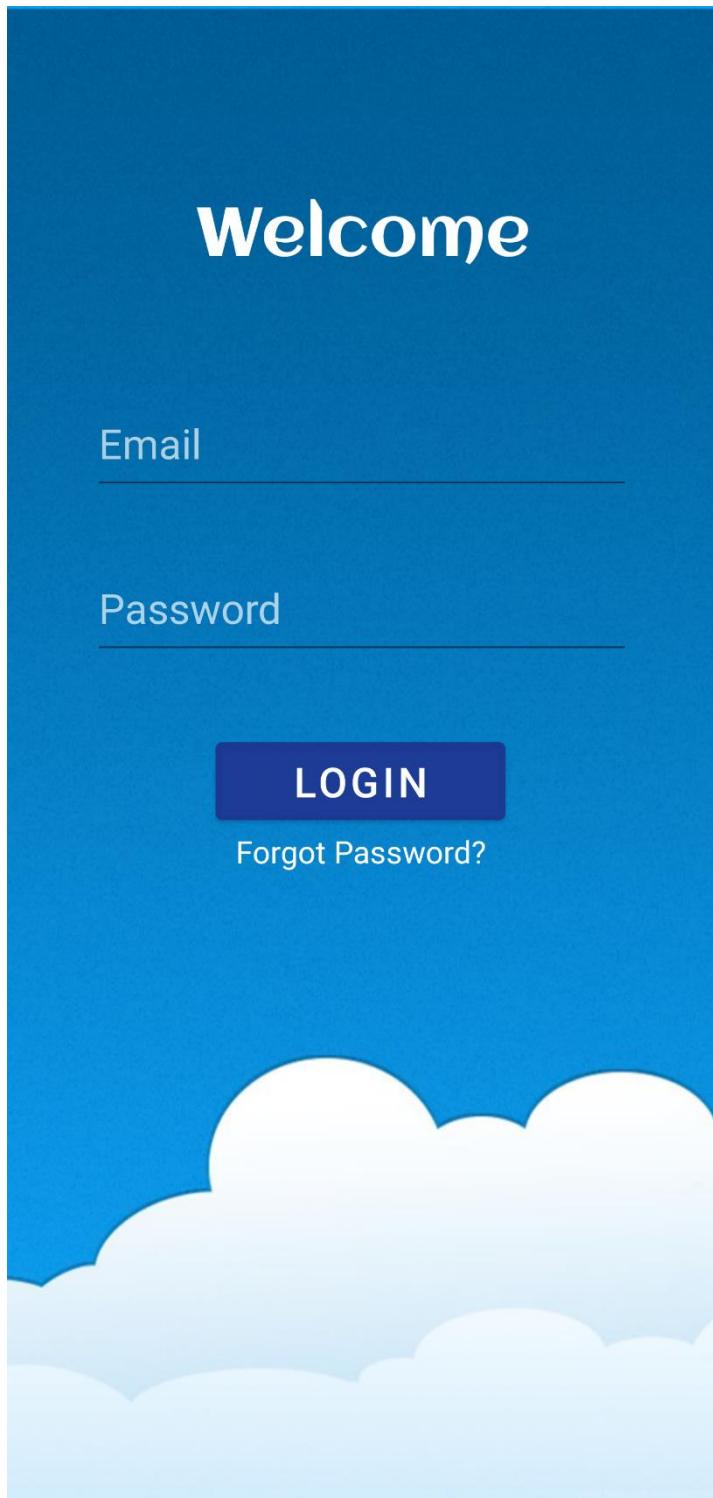
Name : Rajkumar B L

Reg.No : 2047120

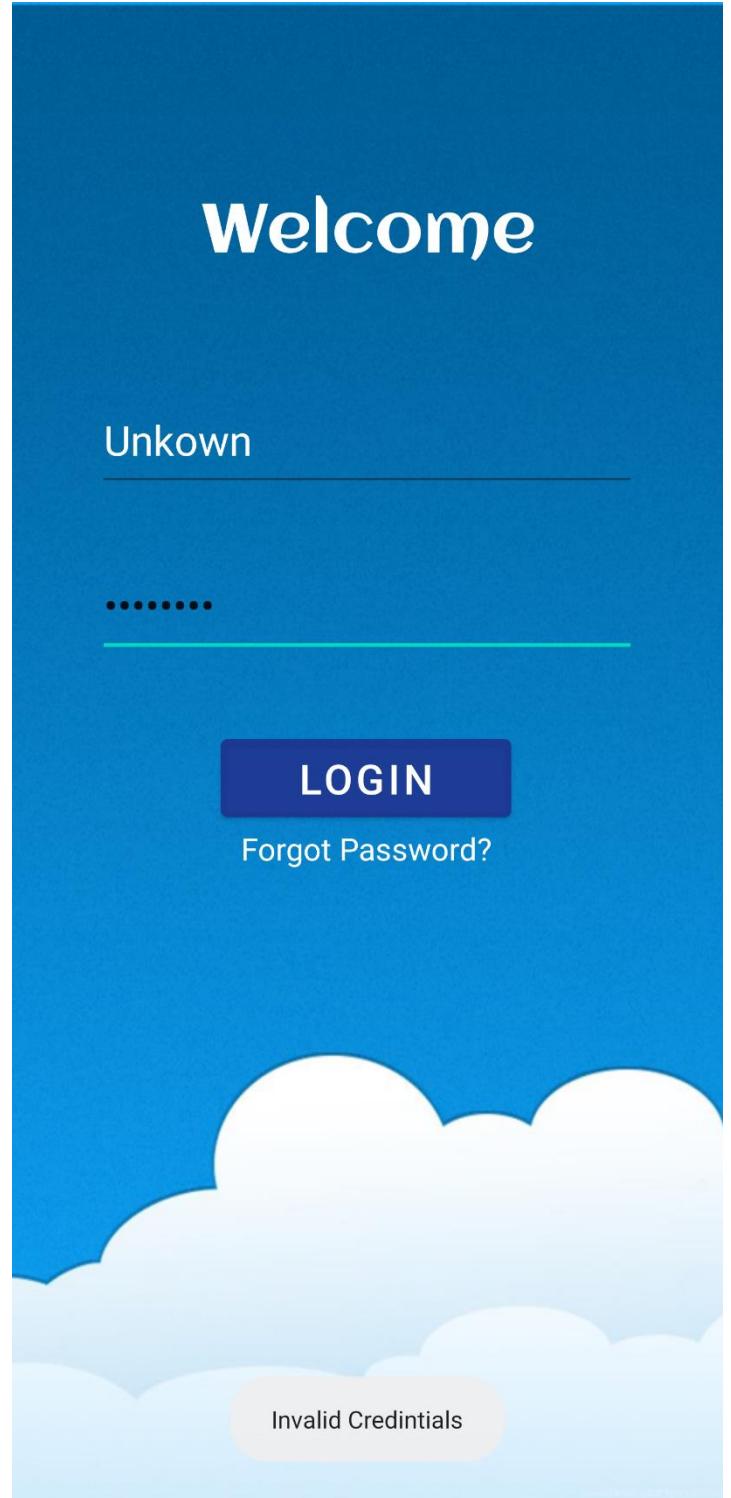
Course : MCS 272 Mobile Application (Program 03)

Output:

1. Welcome Screen

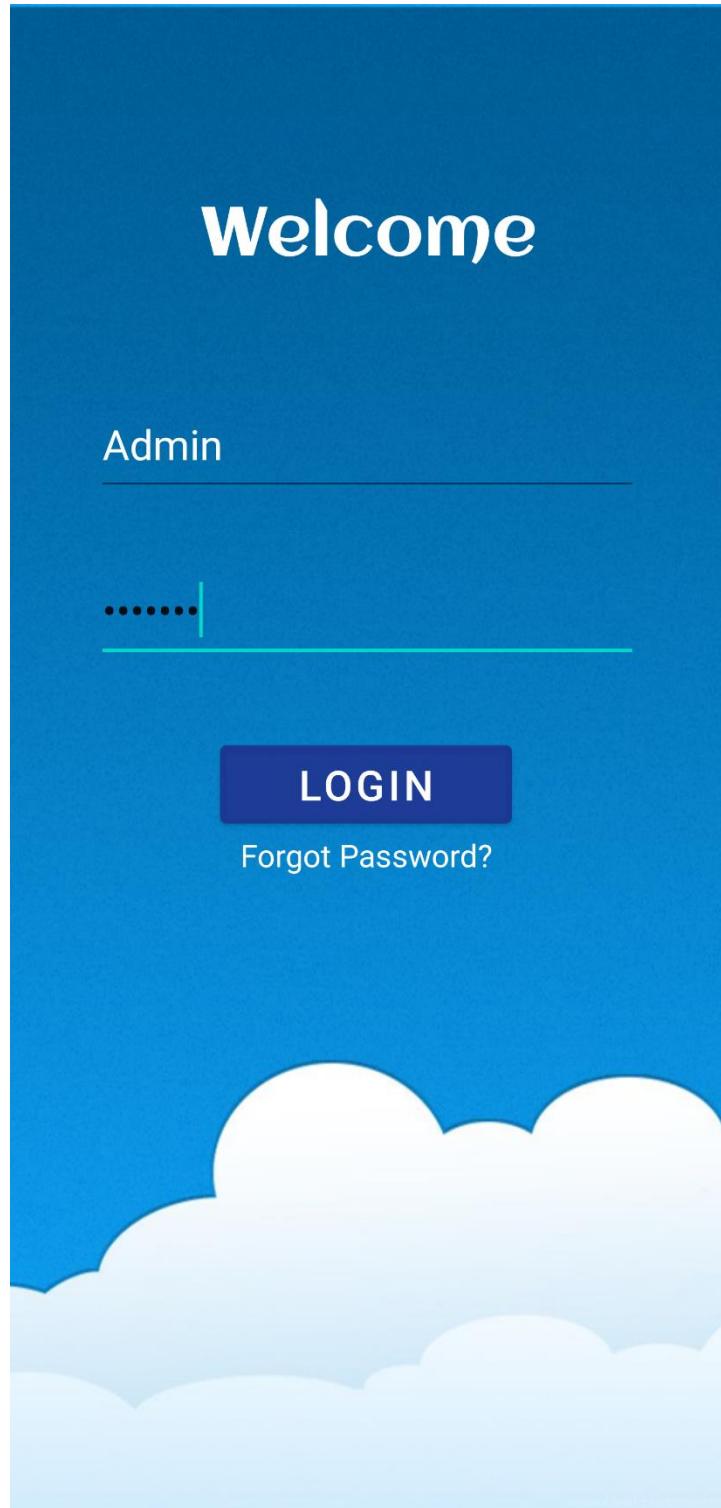


2. Invalid Login Credintials.

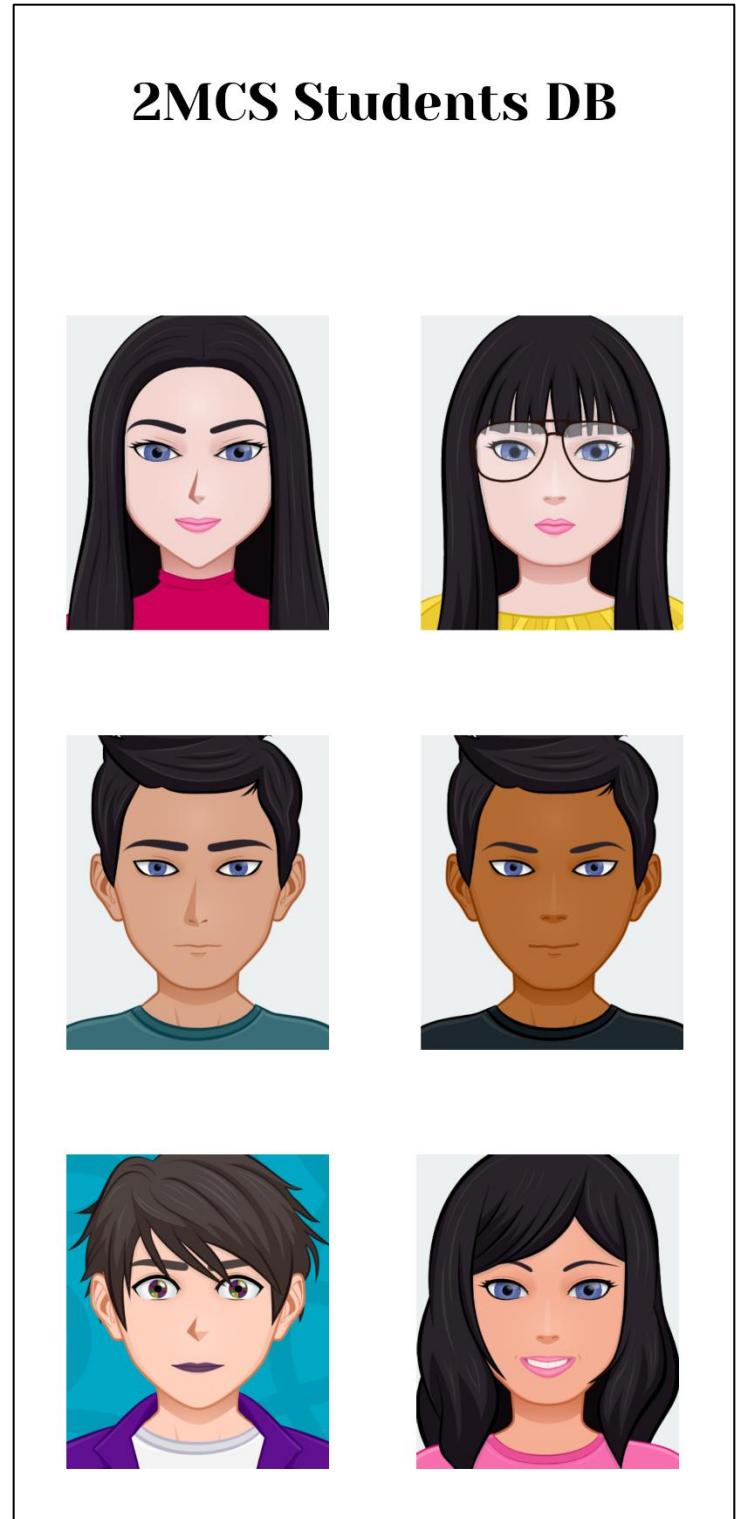


Note : Activity 2 welcome screen displays avatar of some students from 2 mcs. Clicking on a specific avatar switches to activity 3 displaying respective avatars details.

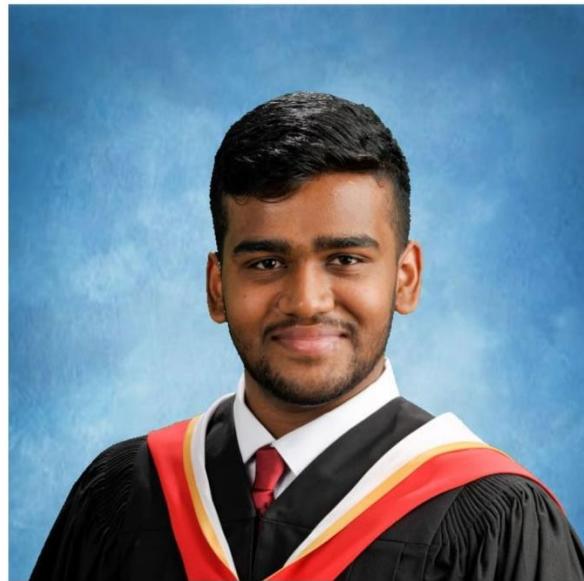
3. Correct Login Credentials.



4. Activity 2 welcome screen.



5. Raj avatar takes to respective details in activity 3.



Name : Rajkumar

Reg.No : 2047120

2 MCS - 2021

raj@cs.chrstuni.in



6. Clicking on Raj phone icon – takes to dial pad.



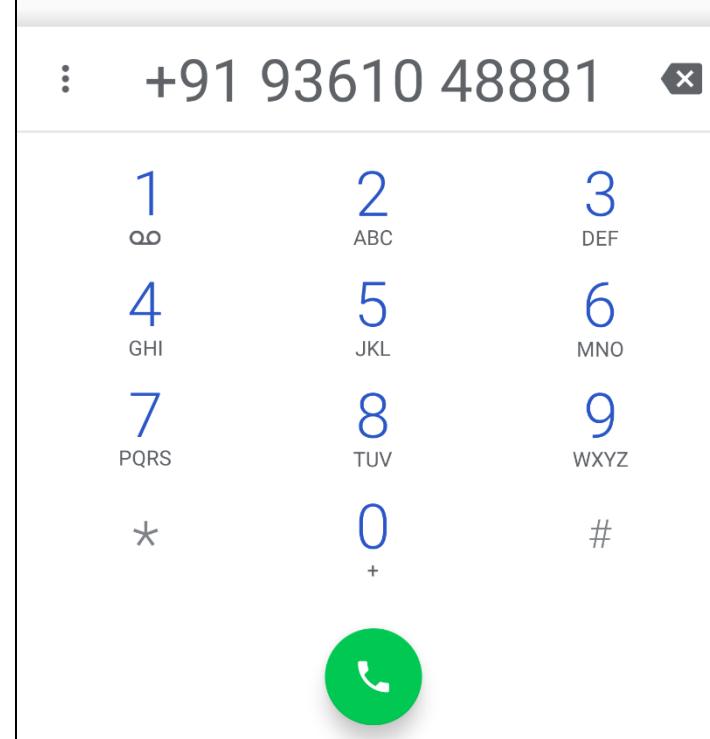
Create new contact



Add to a contact



Send SMS



7. Chui details.



Name : Gaichuiliu
Reg.No : 2047133
2 MCS - 2021
chui@cs.chrstuni.in



8. Chui phone number.

Create new contact

Add to a contact

Send SMS

⋮ +91 95973 24912 ⌂

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



The code used in the Main Activity, XML layout, Splash scree, button ripple effect is attached below for reference.

```
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   android:background="@drawable/bg4"
8   tools:context=".MainActivity">
9
10 <TextView
11   android:id="@+id/welcome"
12   android:layout_width="231dp"
13   android:layout_height="53dp"
14   android:fontFamily="@font/aclonica"
15   android:text="Welcome"
16   android:textAlignment="center"
17   android:textColor="#FFFFFF"
18   android:textSize="40sp"
19   app:layout_constraintBottom_toBottomOf="parent"
20   app:layout_constraintEnd_toEndOf="parent"
21   app:layout_constraintStart_toStartOf="parent"
22   app:layout_constraintTop_toTopOf="parent"
23   app:layout_constraintVertical_bias="0.126" />
24
25 <EditText
26   android:id="@+id/email"
27   android:layout_width="313dp"
28   android:layout_height="62dp"
29   android:layout_marginTop="44dp"
30   android:ems="10"
31   android:hint="Email"
32   android:inputType="textEmailAddress"
33   android:textColor="#FFFFFF"
34   android:textColorHighlight="#FFFFFF"
35   android:textColorHint="#ADFFFFFF"
36   android:textSize="24sp"
37   app:layout_constraintBottom_toBottomOf="parent"
38   app:layout_constraintEnd_toEndOf="parent"
39   app:layout_constraintStart_toStartOf="parent"
40   app:layout_constraintTop_toBottomOf="@+id/welcome"
41   app:layout_constraintVertical_bias="0.037" />
42
43 <EditText
44   android:id="@+id/pass"
45   android:layout_width="313dp"
```

```
46        android:layout_height="62dp"
47        android:ems="10"
48        android:hint="Password"
49        android:inputType="textPassword"
50        android:textColorHint="#ADFFFFFF"
51        android:textSize="24sp"
52        app:layout_constraintBottom_toBottomOf="parent"
53        app:layout_constraintEnd_toEndOf="parent"
54        app:layout_constraintStart_toStartOf="parent"
55        app:layout_constraintTop_toBottomOf="@+id/email"
56        app:layout_constraintVertical_bias="0.064" />
57
58    <Button
59        android:id="@+id/login"
60        style="@style/Widget.MaterialComponents.Button"
61        android:layout_width="168dp"
62        android:layout_height="57dp"
63        android:backgroundTint="#9E21308E"
64        android:onClick="login_button"
65        android:text="Login"
66        android:textSize="24sp"
67        app:layout_constraintBottom_toBottomOf="parent"
68        app:layout_constraintEnd_toEndOf="parent"
69        app:layout_constraintHorizontal_bias="0.497"
70        app:layout_constraintStart_toStartOf="parent"
71        app:layout_constraintTop_toBottomOf="@+id/pass"
72        app:layout_constraintVertical_bias="0.094" />
73
74    <TextView
75        android:id="@+id/forgot"
76        android:layout_width="168dp"
77        android:layout_height="31dp"
78        android:text="Forgot Password?"
79        android:textAlignment="center"
80        android:textColor="#FFFFFF"
81        android:textSize="18sp"
82        app:layout_constraintBottom_toBottomOf="parent"
83        app:layout_constraintEnd_toEndOf="parent"
84        app:layout_constraintHorizontal_bias="0.497"
85        app:layout_constraintStart_toStartOf="parent"
86        app:layout_constraintTop_toBottomOf="@+id/login"
87        app:layout_constraintVertical_bias="0.0" />
88
89    </androidx.constraintlayout.widget.ConstraintLayout>
```

```
30 Intent i1 = new Intent(getApplicationContext(),MainActivity2.  
class);  
31         i1.putExtra("Value",userval);  
32         startActivity(i1);  
33         finish();
```

```
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=".MainActivity2">
8
9   <TextView
10     android:id="@+id/textView"
11     android:layout_width="409dp"
12     android:layout_height="58dp"
13     android:fontFamily="@font/yeseva_one"
14     android:text="2MCS Students DB"
15     android:textAlignment="center"
16     android:textColor="#000000"
17     android:textSize="30sp"
18     app:layout_constraintBottom_toBottomOf="parent"
19     app:layout_constraintEnd_toEndOf="parent"
20     app:layout_constraintStart_toStartOf="parent"
21     app:layout_constraintTop_toTopOf="parent"
22     app:layout_constraintVertical_bias="0.041" />
23
24   <TableLayout
25     android:layout_width="405dp"
26     android:layout_height="694dp"
27     app:layout_constraintBottom_toBottomOf="parent"
28     app:layout_constraintEnd_toEndOf="parent"
29     app:layout_constraintHorizontal_bias="0.8"
30     app:layout_constraintStart_toStartOf="parent"
31     app:layout_constraintTop_toBottomOf="@+id/textView"
32     app:layout_constraintVertical_bias="0.917">
33
34     <TableRow
35       android:layout_width="439dp"
36       android:layout_height="247dp">
37
38       <ImageView
39         android:id="@+id/imageView9"
40         android:layout_width="180dp"
41         android:layout_height="180dp"
42         android:layout_marginLeft="10dp"
43         android:layout_marginTop="10dp"
44         android:layout_marginRight="10dp"
45         android:layout_marginBottom="10dp"
```

```
46          android:onClick="click_chan"
47          app:srcCompat="@drawable/cart1" />
48
49      <ImageView
50          android:id="@+id/imageView10"
51          android:layout_width="180dp"
52          android:layout_height="180dp"
53          android:layout_marginLeft="10dp"
54          android:layout_marginTop="10dp"
55          android:layout_marginRight="5dp"
56          android:layout_marginBottom="10dp"
57          android:onClick="click_chui"
58          app:srcCompat="@drawable/cart2" />
59      </TableRow>
60
61      <TableRow
62          android:layout_width="match_parent"
63          android:layout_height="match_parent">
64
65          <ImageView
66              android:id="@+id/imageView11"
67              android:layout_width="180dp"
68              android:layout_height="180dp"
69              android:layout_marginLeft="10dp"
70              android:layout_marginTop="50dp"
71              android:layout_marginRight="10dp"
72              android:layout_marginBottom="50dp"
73              android:onClick="click_hari"
74              app:srcCompat="@drawable/cart3" />
75
76          <ImageView
77              android:id="@+id/imageView12"
78              android:layout_width="180dp"
79              android:layout_height="180dp"
80              android:layout_marginLeft="10dp"
81              android:layout_marginTop="50dp"
82              android:layout_marginRight="5dp"
83              android:layout_marginBottom="50dp"
84              android:onClick="click_raj"
85              app:srcCompat="@drawable/cart4" />
86      </TableRow>
87
88      <TableRow
89          android:layout_width="match_parent"
90          android:layout_height="match_parent">
91
```

```
92         <ImageView  
93             android:id="@+id/imageView13"  
94             android:layout_width="180dp"  
95             android:layout_height="180dp"  
96             android:layout_marginLeft="10dp"  
97             android:layout_marginTop="10dp"  
98             android:layout_marginRight="10dp"  
99             android:layout_marginBottom="10dp"  
100            android:onClick="click_shivam"  
101            app:srcCompat="@drawable/cart5" />  
102  
103         <ImageView  
104             android:id="@+id/imageView14"  
105             android:layout_width="180dp"  
106             android:layout_height="180dp"  
107             android:layout_marginLeft="10dp"  
108             android:layout_marginTop="10dp"  
109             android:layout_marginRight="10dp"  
110             android:layout_marginBottom="10dp"  
111             android:onClick="click_sonali"  
112             app:srcCompat="@drawable/cart6" />  
113     </TableRow>  
114  
115 </TableLayout>  
116  
117 </androidx.constraintlayout.widget.ConstraintLayout>
```

```
20 Intent j1 = new Intent(getApplicationContext(),MainActivity3.  
    class);  
21         j1.putExtra("Value","chan");  
22         startActivity(j1);  
23         finish();
```

```
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=".MainActivity3">
8
9   <TextView
10     android:id="@+id/prof_name"
11     android:layout_width="340dp"
12     android:layout_height="41dp"
13     android:fontFamily="sans-serif-condensed-medium"
14     android:text="Name : Chancal"
15     android:textAlignment="viewStart"
16     android:textColor="#070707"
17     android:textSize="30sp"
18     app:layout_constraintBottom_toBottomOf="parent"
19     app:layout_constraintEnd_toEndOf="parent"
20     app:layout_constraintHorizontal_bias="0.492"
21     app:layout_constraintStart_toStartOf="parent"
22     app:layout_constraintTop_toBottomOf="@+id/
prof_image"
23     app:layout_constraintVertical_bias="0.029" />
24
25   <TextView
26     android:id="@+id/prof_reg"
27     android:layout_width="340dp"
28     android:layout_height="41dp"
29     android:fontFamily="sans-serif-condensed-medium"
30     android:text="Reg.no : 2047130 "
31     android:textAlignment="viewStart"
32     android:textColor="#070707"
33     android:textSize="30sp"
34     app:layout_constraintBottom_toBottomOf="parent"
35     app:layout_constraintEnd_toEndOf="parent"
36     app:layout_constraintHorizontal_bias="0.492"
37     app:layout_constraintStart_toStartOf="parent"
38     app:layout_constraintTop_toBottomOf="@+id/prof_name
"
39     app:layout_constraintVertical_bias="0.022" />
40
41   <TextView
42     android:id="@+id/textView4"
43     android:layout_width="340dp"
```

```
44        android:layout_height="41dp"
45        android:fontFamily="sans-serif-condensed-medium"
46        android:text="2 MCS - 2021"
47        android:textAlignment="viewStart"
48        android:textColor="#070707"
49        android:textSize="30sp"
50        app:layout_constraintBottom_toBottomOf="parent"
51        app:layout_constraintEnd_toEndOf="parent"
52        app:layout_constraintHorizontal_bias="0.492"
53        app:layout_constraintStart_toStartOf="parent"
54        app:layout_constraintTop_toBottomOf="@+id/prof_reg"
55        app:layout_constraintVertical_bias="0.026" />
56
57    <TextView
58        android:id="@+id/prof_email"
59        android:layout_width="340dp"
60        android:layout_height="41dp"
61        android:fontFamily="sans-serif-condensed-medium"
62        android:text="chan@cs.chrstuni.in"
63        android:textAlignment="viewStart"
64        android:textColor="#070707"
65        android:textSize="30sp"
66        app:layout_constraintBottom_toBottomOf="parent"
67        app:layout_constraintEnd_toEndOf="parent"
68        app:layout_constraintHorizontal_bias="0.492"
69        app:layout_constraintStart_toStartOf="parent"
70        app:layout_constraintTop_toBottomOf="@+id/textView4
"
71        app:layout_constraintVertical_bias="0.023" />
72
73    <ImageView
74        android:id="@+id/prof_image"
75        android:layout_width="351dp"
76        android:layout_height="349dp"
77        app:layout_constraintBottom_toBottomOf="parent"
78        app:layout_constraintEnd_toEndOf="parent"
79        app:layout_constraintHorizontal_bias="0.492"
80        app:layout_constraintStart_toStartOf="parent"
81        app:layout_constraintTop_toTopOf="parent"
82        app:layout_constraintVertical_bias="0.059"
83        app:srcCompat="@drawable/chan" />
84
85    <TableLayout
86        android:layout_width="366dp"
87        android:layout_height="259dp"
88        app:layout_constraintBottom_toBottomOf="parent"
```

```
89         app:layout_constraintEnd_toEndOf="parent"
90         app:layout_constraintHorizontal_bias="0.333"
91         app:layout_constraintStart_toStartOf="parent"
92         app:layout_constraintTop_toBottomOf="@+id/
  prof_email"
93             app:layout_constraintVertical_bias="1.0">
94
95     <TableRow
96         android:layout_width="match_parent"
97         android:layout_height="match_parent">
98
99         <ImageView
100            android:id="@+id/imageView2"
101            android:layout_width="100sp"
102            android:layout_height="100sp"
103            android:onClick="phone_call"
104            app:srcCompat="@drawable/ic1" />
105
106         <ImageView
107            android:id="@+id/imageView3"
108            android:layout_width="100sp"
109            android:layout_height="100sp"
110            app:srcCompat="@drawable/ic4" />
111     </TableRow>
112
113     <TableRow
114         android:layout_width="match_parent"
115         android:layout_height="match_parent">
116
117         <ImageView
118            android:id="@+id/imageView4"
119            android:layout_width="150sp"
120            android:layout_height="150sp"
121            app:srcCompat="@drawable/ic2" />
122
123         <ImageView
124            android:id="@+id/imageView5"
125            android:layout_width="125sp"
126            android:layout_height="150sp"
127            app:srcCompat="@drawable/ic3" />
128     </TableRow>
129 </TableLayout>
130 </androidx.constraintlayout.widget.ConstraintLayout>
```

```
1 package com.example.raj2047120;
2
3 import androidx.appcompat.app.AppCompatActivity;
4
5 import android.content.Intent;
6 import android.graphics.drawable.Drawable;
7 import android.net.Uri;
8 import android.os.Bundle;
9 import android.view.View;
10 import android.widget.ImageView;
11 import android.widget.TextView;
12
13 public class MainActivity3 extends AppCompatActivity {
14
15     private String prof;
16     private ImageView prof_image;
17     private TextView name;
18     private TextView reg;
19     private TextView email;
20     @Override
21     protected void onCreate(Bundle savedInstanceState) {
22         super.onCreate(savedInstanceState);
23         setContentView(R.layout.activity_main3);
24
25         prof_image = (ImageView) findViewById(R.id.
prof_image);
26         name = (TextView) findViewById(R.id.prof_name);
27         reg = (TextView) findViewById(R.id.prof_reg);
28         email = (TextView) findViewById(R.id.prof_email);
29
30         prof = getIntent().getExtras().getString("Value");
31         switch (prof)
32     {
33         case "chan":
34             prof_image.setImageResource(R.drawable.chan
);
35             name.setText("Name : Chanchal");
36             reg.setText("Reg.No : 2047130");
37             email.setText("chan@cs.chrstuni.in");
38             break;
39         case "chui":
40             prof_image.setImageResource(R.drawable.chui
);
41             name.setText("Name : Gaichuiliu");
42             reg.setText("Reg.No : 2047133");
43             email.setText("chui@cs.chrstuni.in");
44     }
45 }
```

```

44                     break;
45                 case "hari":
46                     prof_image.setImageResource(R.drawable.hari
47 );
48                     name.setText("Name : Hari Prasath");
49                     reg.setText("Reg.No : 2047114");
50                     email.setText("hari@cs.chrstuni.in");
51                     break;
52                 case "raj":
53                     prof_image.setImageResource(R.drawable.raj
54 );
55                     name.setText("Name : Rajkumar");
56                     reg.setText("Reg.No : 2047120");
57                     email.setText("raj@cs.chrstuni.in");
58                     break;
59                 case "shivam":
60                     prof_image.setImageResource(R.drawable.
61 shivam);
62                     name.setText("Name : Shivam");
63                     reg.setText("Reg.No : 2047122");
64                     email.setText("shivam@cs.chrstuni.in");
65                     break;
66                 case "sonali":
67                     prof_image.setImageResource(R.drawable.
68 sonali);
69                     name.setText("Name : Sonali");
70                     reg.setText("Reg.No : 2047143");
71                     email.setText("sonali@cs.chrstuni.in");
72                     break;
73                 default:
74                     break;
75             }
76         }
77     public void phone_call(View v)
78     {
79         Intent k1 = new Intent(Intent.ACTION_DIAL);
80         switch (prof)
81         {
82             case "chan":
83                 k1.setData(Uri.parse("tel:+9197086885151"
84 ));;
85                 startActivity(k1);
86                 break;
87             case "chui":
88                 k1.setData(Uri.parse("tel:+919597324912"));
89         }
90     }
91 }

```

```
85         startActivity(k1);
86         break;
87     case "hari":
88         k1.setData(Uri.parse("tel:+919524320021"
89     ));
90         startActivity(k1);
91         break;
92     case "raj":
93         k1.setData(Uri.parse("tel:+919361048881"
94     ));
95         startActivity(k1);
96         break;
97     case "shivam":
98         k1.setData(Uri.parse("tel:+918126519330"
99     ));
100        startActivity(k1);
101        break;
102    default:
103        break;
104    }
105}
106}
107}
```