

ASSIGNMENT 1 – MOBILE DEVELOPMENT

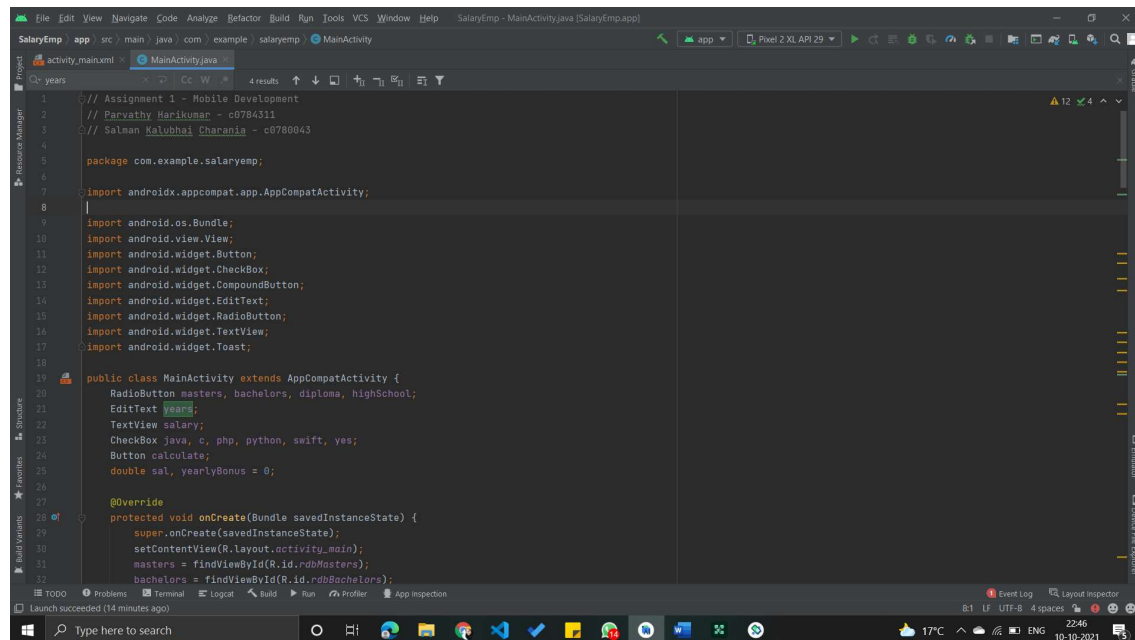
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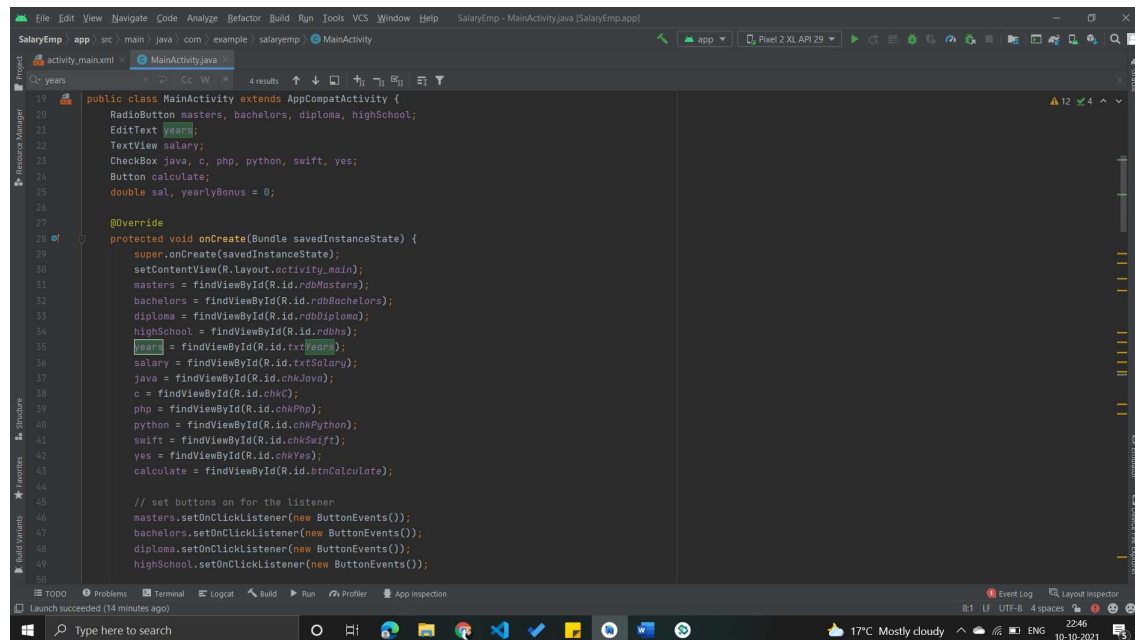
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EMPLOYMENT APPLICATION STIMULATION

An application that will help calculate Employee's per month Salary.



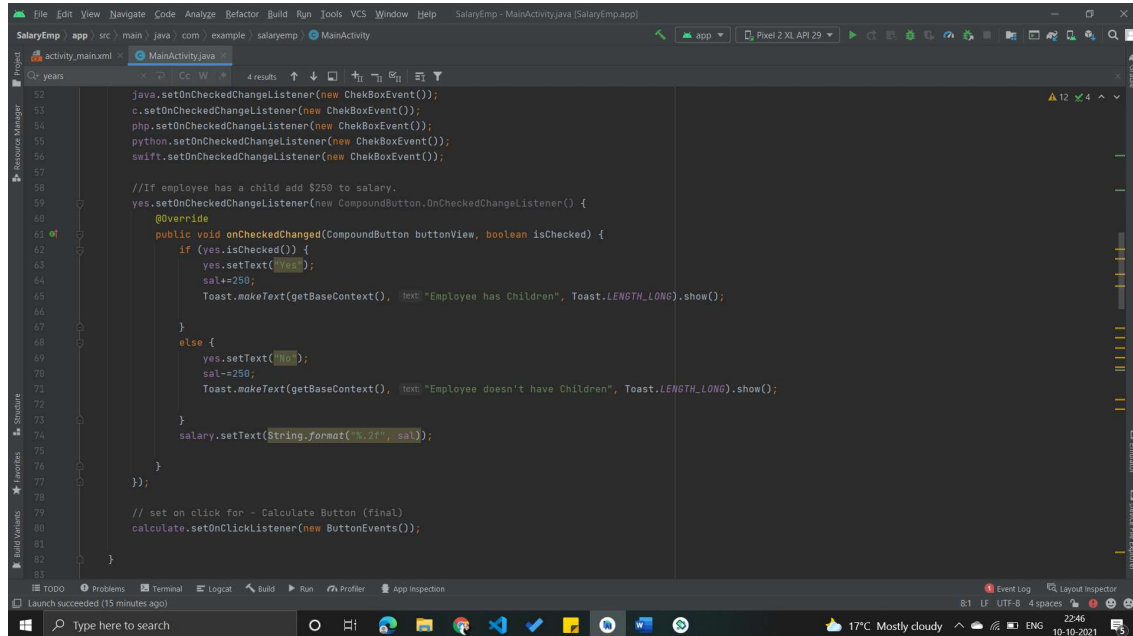
```
1 // Assignment 1 - Mobile Development
2 // Parvathy Harikumar - c0784311
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4
5 package com.example.salaryemp;
6
7 import androidx.appcompat.app.AppCompatActivity;
8
9 import android.os.Bundle;
10 import android.view.View;
11 import android.widget.Button;
12 import android.widget.CheckBox;
13 import android.widget.CompoundButton;
14 import android.widget.EditText;
15 import android.widget.RadioButton;
16 import android.widget.TextView;
17 import android.widget.Toast;
18
19 public class MainActivity extends AppCompatActivity {
20     RadioButton masters, bachelors, diploma, highSchool;
21     EditText years;
22     TextView salary;
23     CheckBox java, c, php, python, swift, yes;
24     Button calculate;
25     double sal, yearlyBonus = 0;
26
27     @Override
28     protected void onCreate(Bundle savedInstanceState) {
29         super.onCreate(savedInstanceState);
30         setContentView(R.layout.activity_main);
31         masters = findViewById(R.id.rdbMasters);
32         bachelors = findViewById(R.id.rdbBachelors);
```



```
33         years = findViewById(R.id.txtYears);
34         salary = findViewById(R.id.txtSalary);
35         java = findViewById(R.id.chkJava);
36         c = findViewById(R.id.chkC);
37         php = findViewById(R.id.chkPhp);
38         python = findViewById(R.id.chkPython);
39         swift = findViewById(R.id.chkSwift);
40         yes = findViewById(R.id.chkYes);
41         calculate = findViewById(R.id.btnCalculate);
42
43         // set buttons on for the listener
44         masters.setOnClickListener(new ButtonEvents());
45         bachelors.setOnClickListener(new ButtonEvents());
46         diploma.setOnClickListener(new ButtonEvents());
47         highSchool.setOnClickListener(new ButtonEvents());
48
49
50
```

Code to add \$250 Bonus if employee has a Child.

- Checkbox is used to input if user has children or Not



```
52 java.setOnCheckedChangeListener(newCheckedChangeListener());
53 c.setOnCheckedChangeListener(newCheckedChangeListener());
54 php.setOnCheckedChangeListener(newCheckedChangeListener());
55 python.setOnCheckedChangeListener(newCheckedChangeListener());
56 swift.setOnCheckedChangeListener(newCheckedChangeListener());
57
58 //If employee has a child add $250 to salary.
59 yes.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
60     @Override
61     public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {
62         if (yes.isChecked()) {
63             yes.setText("yes");
64             sal+=250;
65             Toast.makeText(getApplicationContext(), "Employee has Children", Toast.LENGTH_LONG).show();
66         }
67         else {
68             yes.setText("No");
69             sal-=250;
70             Toast.makeText(getApplicationContext(), "Employee doesn't have Children", Toast.LENGTH_LONG).show();
71         }
72         salary.setText(String.format("%.2f", sal));
73     }
74 }
75
76 // set on click for ~ Calculate Button (final)
77 calculate.setOnClickListener(new ButtonEvents());
78
79 }
80
81 }
82
83 }
```

Based on customers qualification – salary is determined.

- Qualifications can be Master, Bachelor, Diploma, High School Graduate
- Input from user using Radio Buttons (Group)

Displaying total on clicking Calculate Button.

- Also inputs employees experience and gives respective bonus (\$75 per year and for experience above 5 years \$500)

```
82 }
83
84 //Implementing functionality on clicking buttons
85 // Qualification - Masters, Diploma, Bachelors, High School
86 // Calculate - the final calculate button
87 private class ButtonEvents implements View.OnClickListener {
88     @Override
89     public void onClick(View v){
90         switch(v.getId()){
91             case R.id.rbMasters:
92                 sal = 6500;
93                 Toast.makeText(getBaseContext(), text:"Employee has Masters Degree", Toast.LENGTH_LONG).show();
94                 break;
95             case R.id.rbBachelors:
96                 sal = 6000;
97                 Toast.makeText(getBaseContext(), text:"Employee has Bachelors Degree", Toast.LENGTH_LONG).show();
98                 break;
99             case R.id.rbDiploma:
100                 sal = 5400;
101                 Toast.makeText(getBaseContext(), text:"Employee has Diploma", Toast.LENGTH_LONG).show();
102                 break;
103             case R.id.rbHs:
104                 sal = 4000;
105                 Toast.makeText(getBaseContext(), text:"Employee is a High School Graduate", Toast.LENGTH_LONG).show();
106                 break;
107             case R.id.btnCalculate:
108                 int yrs = Integer.parseInt(years.getText().toString());
109                 // Adding Bonus for experience.
110                 sal += yearlyBonus; // refreshing old experience
111                 yearlyBonus = 0;
112                 if (yrs >= 0) {
113                     Toast.makeText(getBaseContext(), text:"Employee has "+ yrs +" of Experience", Toast.LENGTH_LONG).show();
114                 }
115             }
116     }
117 }
```

```
116             case R.id.btnCalculate:
117                 int yrs = Integer.parseInt(years.getText().toString());
118                 // Adding Bonus for experience.
119                 sal += yearlyBonus; // refreshing old experience
120                 yearlyBonus = 0;
121                 if (yrs >= 0) {
122                     Toast.makeText(getBaseContext(), text:"Employee has "+ yrs +" of Experience", Toast.LENGTH_LONG).show();
123                     if (yrs > 5)
124                         yearlyBonus += 500;
125                     else
126                         yearlyBonus += 75 * yrs;
127                 }
128                 sal += yearlyBonus;
129                 salary.setText(String.format("%.2f", sal));
130                 break;
131             }
132         }
133     }
134     salary.setText(String.format("%.2f", sal));
135 }
```

Check which language customer knows and adds it to their monthly salary

```
SalaryEmp app src main java com example salaryemp MainActivity
activity_main.xml MainActivity.java
4 results
130
131 //class to implement the checkboxes
132 private class CheckBoxEvent implements CompoundButton.OnCheckedChangeListener {
133
134
135     @Override
136     public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {
137         if (buttonView.getId() == R.id.chkJava) {
138             if (java.isChecked()) {
139                 sal+=200;
140                 Toast.makeText(getBaseContext(), text: "Employee knows JAVA Language", Toast.LENGTH_LONG).show();
141             } else {
142                 sal-=200;
143                 Toast.makeText(getBaseContext(), text: "Employee doesn't know JAVA Language", Toast.LENGTH_LONG).show();
144             }
145         }
146         if (buttonView.getId() == R.id.chkC) {
147             if (c.isChecked()) {
148                 sal+=170;
149                 Toast.makeText(getBaseContext(), text: "Employee knows C# language", Toast.LENGTH_LONG).show();
150             } else {
151                 sal-=170;
152                 Toast.makeText(getBaseContext(), text: "Employee doesn't know C# language", Toast.LENGTH_LONG).show();
153             }
154         }
155         if (buttonView.getId() == R.id.chkPhp) {
156             if (php.isChecked()) {
157                 sal+=100;
158                 Toast.makeText(getBaseContext(), text: "Employee knows Php language", Toast.LENGTH_LONG).show();
159             } else {
160                 sal-=100;
161                 Toast.makeText(getBaseContext(), text: "Employee doesn't know Php language", Toast.LENGTH_LONG).show();
162             }
163         }
164     }
165 }
166
167 Launch succeeded (16 minutes ago)
168
169 17°C Mostly cloudy
170 22:48
171 10-10-2021
```

```
SalaryEmp app src main java com example salaryemp MainActivity
activity_main.xml MainActivity.java
4 results
154
155 if (buttonView.getId() == R.id.chkPhp) {
156     if (php.isChecked()) {
157         sal+=100;
158         Toast.makeText(getBaseContext(), text: "Employee knows Php language", Toast.LENGTH_LONG).show();
159     } else {
160         sal-=100;
161         Toast.makeText(getBaseContext(), text: "Employee doesn't know Php language", Toast.LENGTH_LONG).show();
162     }
163 }
164 if (buttonView.getId() == R.id.chkPython) {
165     if (python.isChecked()) {
166         sal+=230;
167         Toast.makeText(getBaseContext(), text: "Employee knows Python language", Toast.LENGTH_LONG).show();
168     } else {
169         sal-=230;
170         Toast.makeText(getBaseContext(), text: "Employee doesn't know Python language", Toast.LENGTH_LONG).show();
171     }
172 }
173 if (buttonView.getId() == R.id.chkSwift) {
174     if (swift.isChecked()) {
175         sal+=200;
176         Toast.makeText(getBaseContext(), text: "Employee knows Swift language", Toast.LENGTH_LONG).show();
177     } else {
178         sal-=200;
179         Toast.makeText(getBaseContext(), text: "Employee doesn't know Swift language", Toast.LENGTH_LONG).show();
180     }
181 }
182 salary.setText(String.format("%.2f", sal));
183 }
184
185
186 Launch succeeded (16 minutes ago)
187
188 17°C Mostly cloudy
189 22:48
190 10-10-2021
```

OUTPUT

