MONASH
University

FIT2081 Mobile application development - S1 2021

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State	Finished
Completed on	Monday, 15 March 2021, 10:49 PM
Time taken	1 hour 39 mins
Grade	**8.96** out of 10.00 (**90**%)

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Question 1

Complete

Mark 8.96 out of 10.00

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Question 1

a) Suppose you have an activity with an instance variable (class level) of type integer called 'counter'. Your task is to save and restore the value of 'counter' each time the activity changes its orientation as well as the views data. Implement the required code.

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```
public class MainActivity extends Activity {
    private int counter ;
    @Override
    protected void onCreate (Bundle savedInstanceState) {
    super.onCreate (savedInstanceState);
    setContentView (R.layout.activity_main);
    }
    Button btnCount = findViewById (R.id.button);
    btnCount.setOnClickListener (new View.OnClickListener () {
      @Override
     public void onClick (View v) {
     getCount ();
        }
     });
    }
    private void getCount () {
       ++ count;
      Toast.makeText (MainActivity.this, "Our count is" + count, Toast.LENGTH_SHORT) .show ();
```

```
        }
      @ Override
       protected void onRestoreInstanceState (Bundle savedInstanceState) {
            super.onRestoreInstanceState (savedInstanceState);
            count = savedInstanceState.getInt ("Count");
        }


      @Override
       protected void onSaveInstanceState (Bundle outState) {
            super.onSaveInstanceState (outState);
            outState.putInt ("Count", count);
        }
```

Comment:
(Q1=100% Q2=75% Q3=88%)

Question 2

Complete

Not graded

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Question 2

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a) What is the effect of implementing onBackPressed() and calling super.onBackPressed()?

Based on the event that was consumed the BackPress events return true or false using Boolean.

For example:

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oveuide for on BackPressed() : Boolean {

  {
     return true
  }
 return false
}

Calling super.On BackPressed()

It defines back navigation or back button that is pressed. Each call backs that are registered via add callBack are evaluated when calling super.OnBackPressed().

Question 3

Complete

Not graded

Question 3

b) Briefly explain the scenarios where the following callback methods do not get invoked during Activity lifecycle.

1. onSaveInstanceSate()

2. onRestoreInstaceState()

3. onDestroy()

1. Not called if the user indicates they are done with the Activity.

2. Not called if the Bundle is not non-null.

3. If kill the activity by swiping out from the background, onDestroy() method is not getting called.

Question **4**

Complete

Not graded

Question 4

Write a piece of code that stores the following keyvalue pairs asynchrony in a shared preferences file named "activity.file"

i. unit:"FIT2081"   ii. studentsCount:510

```
public class MainActivity extends APPCompatActivity {

    EditText etunit;

    EditText etstudentCount;

    Buttton btnShow;

    SharedPreferences userInfo;


    public void SaveInfo( ){

        SharePreferences.Editor edit = userInfo.edit( );

        edit.putString("unit","FIT2081");

        edit.putString("studentsCount","510");

        edit.apply( );

    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        userInfo = getsharedPreferences("activity.file", MODE_PRIVATE);


        etunit = findviewById(R.id.etunit);

        etnShow = findviewById(R.id.btnShow);

        etstudentCount = findviewById(R.id. etstudentCount);


        btnShow.setOnClickListener(new view.OnClickLisetener( ) {

            @Override
```

```
        public void onclick(view v ){

            saveInfo( );

        }

    }) ;

  }

}
```

Question **5**

Not answered

Not graded

Question 5

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