

FIT2081 Mobile application development - S1 2021

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Question 1

Complete

Mark 8.75 out of 10.00

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Question 1

Q1 - If you have an activity that uses constraint layout with id="layout_21_s1", write a piece of code that shows in a toast the distance in pixel between a click event that occurs on the activity and the left edge of the screen. (20m)

```
packagecom.example.workshopW10;
```

```
importandroidx.appcompat.app.AppCompatActivity;  
import androidx.constraintlayout.widget.ConstraintLayout;
```

```
import android.os.Bundle;  
import android.view.MotionEvent;  
import android.view.View;  
import android.widget.Toast;
```

```
publicclassMainActivityextendsAppCompatActivity {  
    ConstraintLayout constraintLayout;  
    @Override  
    protectedvoidonCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);
```

```

View constraintLayout = findViewById(R.id.layout_21_s1);
view.setOnClickListener(new View.OnClickListener(){
    @Override
    public boolean onTouch(View v, MotionEvent event) {
        int action = event.getActionMasked();
        float xCoord = event.getX();
        float yCoord = event.getY();
        String message = String.format("(X,Y) coordinates = (%.2f, %.2f)", xCoord, yCoord);
        switch (action){
            case (MotionEvent.ACTION_UP ):
                Snackbar mySnackBar=Snackbar.make(frameLayout,message, Snackbar.LENGTH_SHORT);
                mySnackBar.show();
                break;
        }
        return true;
    }
});

```

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```

constraintLayout.setOnClickListener(new View.OnClickListener() {
    @Override
    public boolean onTouch(View v, MotionEvent event) {
        int action = event.getActionMasked();
        float xCoord = event.getRawX();
        String message = String.format("Distance: %.2f", Math.abs(xCoord));
        Toast myToast= Toast.makeText (getBaseContext(), message,

```

```

Toast.LENGTH_SHORT);
        switch (action){
            case (MotionEvent.ACTION_UP ):
                myToast.show();
                break;
            case (MotionEvent.ACTION_DOWN):
                myToast.show();
                break;
            case (MotionEvent.ACTION_MOVE):
                myToast.show();
                break;
        }
        return true;
    }
});
}
}

```

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Comment:

(Q1=90% Q2=100% Q3=71%)

Question 2

Complete

Not graded

Question 2

Q2 - Briefly explain the role of the `getActionMasked`'s output. (5m)

`int i=motionEvent.getActionMasked;`

The `getActionMasked()` method returns an integer number (constant) that represents the type of the current event. The action is then compared with pre-defined constant values to determine the type of the current event.

In `int i = MotionEvent.getActionMasked()`, `getActionMasked()` will return just an event (up, down, move) information without showing any other event information i.e all other information will be masked out.

The role of `getActionMasked()` is that it will be used to check whether the click event is UP, DOWN, MOVE and based on that output.

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Question 3

Complete

Not graded

Question 3

Q3- The following piece of code is designed to show a toast with each Action Up event. But, it shows nothing. Find and explain the problem, then fix it. (7m)

Action UP event that can not occur without having any prior DOWN and MOVE event, so UP can only come after DOWN or MOVE event. To solve this problem, I need to add the Down and Move section to this code.

```
view.setOnTouchListener(new View.OnTouchListener() {  
    @Override  
    public boolean onTouch(View v, MotionEvent event) {  
        int action = event.getActionMasked();  
        switch(action){  
            case(MotionEvent.ACTION_DOWN) :  
                Toast.makeText(self,"Action DOWN",Toast.LENGTH_SHORT).show();  
                return true;  
            case(MotionEvent.ACTION_MOVE) :  
                Toast.makeText(self,"Action MOVE",Toast.LENGTH_SHORT).show();
```

```
        return true;
    case(MotionEvent.ACTION_UP) :
        Toast.makeText(self,"Action UP",Toast.LENGTH_SHORT).show();
        return true;
    default :
        return false;
    }
}
});
```

Question **4**

Not answered

Not graded

Question 4

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Question **5**

Not answered

Not graded

Question 5

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