

## 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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