Date :
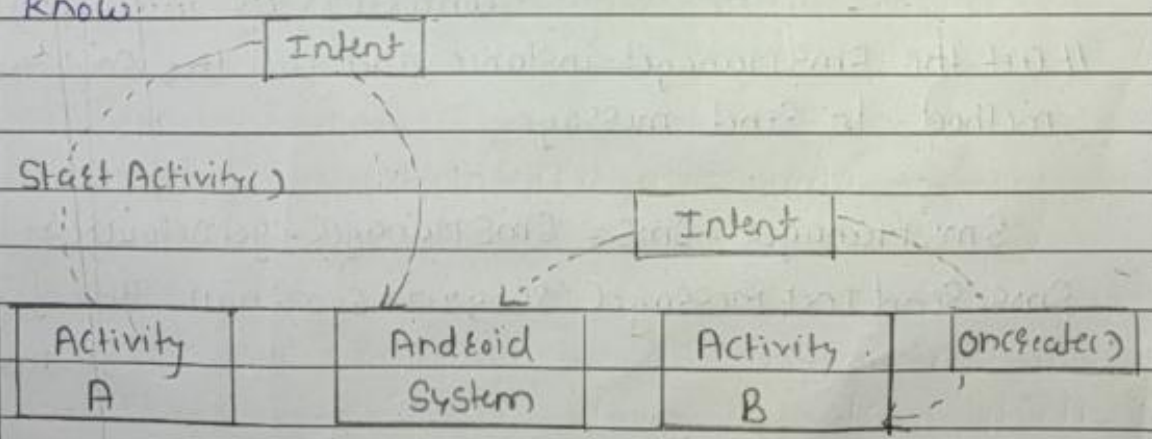
Experiment No:- 4

Title:
   Write a program to Study Intents for Switching between activities.

Problem Statement:
- Demonstrate Implicit (Sending SMS) and Explicit Intents (carrying user Info to next Activity and Display there)

Theory:

- What is Intent?
  - Android intent is the message that is passed between two Components Such as activity.
- By using this intent we can pass message from one application to another or we can pass message within the Same $ message.
- Consider following diagram how intent works to know

| Intent |

Start Activity()

| Intent |

| Activity A | | Android System | | Activity B | | oncreate() |

- According to this diagram we have 1st activity having name a. We have used start activity method to call new Activity B
- we have also passed our intent. The android System Searches for the target activity B & starts its and deliver intent to it
- After Creation of Activity B onCreate() will be executed.

• Android Intent messaging Via Intent Objects.

- we can send Sms / message in android via intent. you need to write only 4 lines of code the send Sms in android.

```
// Getting intent and pending Intent instance.

Intent intent = new Intent( getApplicationContext(), Main
                                   Activity. class);
Pending Intent pi = Pending Intent. get Activity (getApplication
                              Context(), 0, intent, 0);
// Get the Sms Manager instance and call the Send Texmsg
method to send message.


Sms Manager Sms = Sms Manager. get Default();
Sms. Send Text Message("8809 2177 690", null, 'hello javapoint",
                                   pi, null)
```

Types of intents:-
These are two types of intents
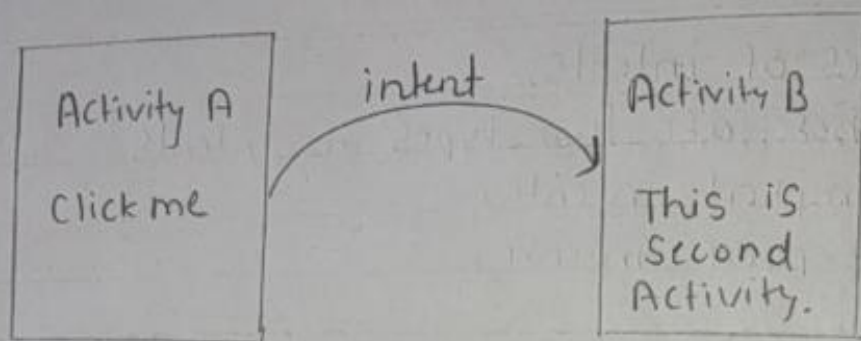1) Implicit intent()
2) Explicit intent()

1) Implicit Intent:
- Here the component is not specified.
- The android operating system will printout
the operating system component. which will response
to the action.
- Consider following code to know implicit intent.

Intent intent= new Intent(Intent Action VIEW);
Intent. SetData (Uri. parse ("http ://www.google.com);
Start Activity (intent)

- In this code we have created object of intent class
& the Setdata method() is used to provide the
webpage google.com we have Started the activity.

2) Explicit Intent:
- In the Explicit intent the target component Speci
fy by using the explicit intent we can call
Second activity from the first activity.
- Here only specified target is invoked opend.

Consider the following code explict intent.

Intent i = new Intent (getApplicationContext()),
                    ActivityTwo. class);
    StartActivity (i);

- In this code Activity B class is the name of Activity we are going to open from 1st Activity.

• Using Intents with Activities;

    - Starting an Activity with an explicit intent
    - To Start a Specific activity from another activity, use an explict intent and the StartActivity() methd Explict intents include the fully qualified Class name. for the Activity of the component in the intent object. All the other intent fields are optional. and huu by default.

For eg.
- if you wanted to start the Show Message Activity
to Show a Specific message in an email App.

Intent message Intent = new Intent (this, Show message
Activity class)

Start Activity (message Intent)