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| **PEARSON INSTITUTE OF HIGHER EDUCATION** |
| **Java and Distributed Systems** |
| **Android Studio – Project(Theory)** |

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Question 1

Question 1.1

**Step 1**

**Intents and their uses in Android development**

* Intent is used for performing an action.
* It is mainly used for starting an activity, to send broadcast receiver, starting services and then sending messages between two activities.
* In Android development, there are two main activities.
* These includes explicit intent and implicit intent.
* Explicit intent is used for connecting internal world of an application.
* These includes start activity or sending data between two activities.
* In order to start new activity, an Intent object is created and then source and destination activities are passed.

**Step 2**

* The next intent is implicit intent.
* It is used for connecting an out side of an application.
* It includes call, mail, phone and so on.
* In an implicit intent, an action should be passed using the method setAction()

Question 1.2

**Step 1**

**SQLiteOpenHelper:**

* Android provides a helper class to manage database activity.
* SQLiteOpenHelper is helper class that manages all database activities like creation, updating, opening and deletion.
* One can directly import this helper class using “android.database.sqlite.SQLiteOpenHelper” header file.
* Two constructors are used in SQLiteOpenHelper class. The first object is used for creating, opening and managing the database. The next object is used for specifying the error handler.
* It is advantage of using helper class is to create and manage database functions.
* It is responsible to perform all database operations.

**Step 2**

**SQLiteCursor:**

* SQLiteCursor is class that is used to store the results from query.
* One should import “android.database.sqlite.SQLiteCursor” to access the cursor objects.
* It is not synchronized internally; the threads perform their own synchronization when using cursor object.
* The cursor object is responsible for storing the results of queries.
* Later one can use this cursor to access the result.
* It is under the property of “java.lang.object”