**Mobile app development: Assignment-1**

**Question:** Explain briefly the following terms and its use with example.

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**Answer:**

1. [What is the widget](https://www.google.com/search?rlz=1C1RLNS_enBD765BD765&q=What+is+the+widget%3F&sa=X&ved=0ahUKEwi9k-T18LnaAhXJtY8KHSIRBykQzmcIUQ):

A **widget** is an element of a graphical user interface (GUI) that displays information or provides a specific way for a user to interact with the operating system or an application.

In **Android**, the word **widget** is a generic term for a bit of self-contained code that displays a program, or a piece of a program, that is also (usually) a shortcut to a larger application.

1. Text View:

A user interface element that displays text to the user.

Example:

<textview

Android:id="@+id/text\_view\_id"

Android:layout\_height="wrap\_content"

Android:layout\_width="wrap\_content"

Android:text="@string/hello" />

1. Button:

A user interface element the user can tap or click to perform an action.

1. Toggle Button:

A toggle button allows the user to change a setting between two states.

Example:

Togglebutton toggle = (togglebutton) findviewbyid(R.id.togglebutton);  
toggle.setoncheckedchangelistener(new compoundbutton.oncheckedchangelistener() {  
    public void oncheckedchanged(compoundbutton buttonview, boolean ischecked) {  
        if (ischecked) {  
            // The toggle is enabled  
        } else {  
            // The toggle is disabled  
        }  
    }  
});

1. Check box

Checkboxes allow the user to select one or more options from a set. Typically, you should present each checkbox option in a vertical list.

1. Radio button
2. Checked text view
3. Spinner
4. Progress bar
5. Seek bar
6. Quick contact badge
7. Rating bar
8. Switch
9. Space
10. Text fields / edit text
11. Plain text
12. Password
13. 18. Email
14. Phone
15. Postal address
16. Multiline text
17. Time
18. Date
19. Number
20. Auto complete text view
21. Multi auto complete text view
22. Layouts
23. Constraint layout
24. Grid layout
25. Frame layout
26. Linear layout
27. Relative layout
28. Table layout
29. Table row
30. Fragment
31. Containers
32. Radio group
33. List view
34. Grid view
35. Expandable list view
36. Scroll view
37. Horizontal scroll view
38. Tab host
39. Web view
40. Search view
41. Image and media
42. Image button
43. Image view
44. Video view
45. Date and time
46. Time picker
47. Date picker
48. Calendar view
49. Chronometer
50. Text clock
51. Transitions
52. Image switcher
53. Adapter view flipper
54. Stack view
55. Text switcher
56. View animator
57. View flipper
58. View switcher
59. Include
60. Request focus
61. View
62. View stub
63. Texture view
64. Surface view
65. Number picker
66. Ad view
67. Map fragment
68. Map view
69. Coordinator layout
70. App bar layout
71. Tab layout
72. Tab item
73. Nested scroll view
74. Floating action button
75. Text input layout
76. Card view
77. Grid layout
78. Recycler view
79. Toolbar