Government Engineering College, Rajkot

Department of Computer Engineering

B.E. VIIth Semester

Mobile Computing and Wireless Communication (2170710)

Lab Manual

Enrollment No. 170200107003

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| 1 | Write a program to simulate Fixed Time Division Multiplexing. Take 12 stations. Every station has time slice of 417 microseconds. Delay should be 10ms. Every time the station gets turn, it shows message. | 1/7/2020 | 2 |  |
| 2 | Write a program that identifies the bluetooth devices in the wireless range. | 8/7/2020 | 5 |  |
| 3 | Write a program that prints the signal strength of WiFi connection of the given computer. | 15/7/2020 | 12 |  |
| 4 | Prepare a wireless ad hoc network and show its working. | 22/7/2020 | 16 |  |
| 5 | Write a program to find hamming distance. For example Hamming distance d(v1,v2)=3 if v1=011011,v2=110001. | 29/7/2020 | 21 |  |
| 6 | Write a program to perform infrared communication. | 5/8/2020 | 23 |  |
| 7 | Write a program to perform Bluetooth file transfer. | 26/8/2020 | 27 |  |
| 8 | Develop an android app which displays “Hello, welcome to Android Lab” message. | 2/9/2020 | 32 |  |
| 9 | Develop an android app which displays a form to get user information from user. Form should be followed by a Button with label “Submit”. When user clicks the button, a message should be displayed to user describing the information entered.  Utilize suitable UI controls (i.e. widgets). [When user enters country in AutoCompleteTextView, list of states should be displayed in Spinner automatically.] | 30/9/2020 | 35 |  |
| 10 | Using Android, Create a login Activity. It asks “username” and “password” from user. If username and password are valid, it displays Welcome message using new activity. | 7/10/2020 | 48 |  |
| 11 | Develop calculator Android Application. | 14/10/2020 | 52 |  |

**Lab In-charge Computer Engineering**