

IT Workshop -II (CS251)

Lab Assignment : 8

Q-1) Create a Student class with the following specifications:

Class: Student	
String	name
String	department
int	roll
int	marks

Create Student objects with following specifications and store them in ArrayList.

name	department	roll	marks
Amar	CSE	111	90
Ajit	ECE	222	67
Bipul	HS	1111	30
Bidyut	CSE	23	34
Pradyut	ECE	567	78

Find the following things by iterating over the ArrayList:

- Display record of students who have marks greater than 50.
- Display name of students belonging to CSE department.
- Display the average marks of the given students.

Q-2) Write a client-server socket program in Java with following requirements:

Client: It should read a text file named *Word.txt* having different words at each line and send them sequentially to the server. Then it should wait for the response from the server and write the response in a text file named *Answer.txt*.

Server: It should take one word from the client at a time and then verify whether the word is palindrome or not (without using *strrev()* method). If the word is palindrome then it should return 1 or else 0.

Sample:

Word.txt	Answer.txt
nitin	1
renner	1
java	0
redivider	1
computer	0
racecar	1
kayak	1