**CODE-**

**berkeley.java**

import java.util.Date;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.Scanner;

public class berkeley {

public static void berkeleyAlgo(String servertime, String time1, String time2) {

System.out.println("Server Clock = " + servertime);

System.out.println("Client Clock 1 = " + time1);

System.out.println("Client Clock 2 = " + time2);

SimpleDateFormat sdf = new SimpleDateFormat("mm:ss");

try {

/\* Converting time to Milliseconds \*/

long s = sdf.parse(servertime).getTime();

long t1 = sdf.parse(time1).getTime();

long t2 = sdf.parse(time2).getTime();

/\* Calcuating time differences w.r.t server \*/

long st1 = t1 - s;

System.out.println("t1 - s = "+st1/1000);

long st2 = t2 - s;

System.out.println("t2 - s = "+st2/1000);

/\* Fault tolerant Average \*/

long aveg = (st1 + st2 + 0) / 3;

System.out.println("(st1 + st2 + 0)/3 = "+aveg/1000);

/\* Adjustment \*/

long adjserver = aveg+s;

long adj\_t1 = aveg-st1;

long adj\_t2 = aveg-st2;

System.out.println("t1 adjustment = "+adj\_t1/1000);

System.out.println("t2 adjustment = "+adj\_t2/1000);

/\* sync clock \*/

System.out.println("Synchronized Server Clock = "+sdf.format(new Date(adjserver)));

System.out.println("Synchronized Client1 Clock = "+sdf.format(new Date(t1+adj\_t1)));

System.out.println("Synchronized Client2 Clock = "+sdf.format(new Date(t2+adj\_t2)));

} catch (ParseException e) {

e.printStackTrace();

}

}

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter server time (in the format MM:SS): ");

String servertime = scanner.nextLine();

System.out.print("Enter time 1 (in the format MM:SS): ");

String time1 = scanner.nextLine();

System.out.print("Enter time 2 (in the format MM:SS): ");

String time2 = scanner.nextLine();

berkeleyAlgo(servertime, time1, time2);

}

}

**OUTPUT-**

