# MEGHNAD SAHA INSTITUTE OF TECHNOLOGY

*Nazirabad, P.O. - Uchhepota, Near URBANA Complex, Anandapur, Kolkata 700 150*

**BACHELOR OF COMPUTER APPLICATION**



LABORATORY NOTE BOOK

MAKAUT ODD SEMESTER 2023

PAPER CODE: BCAC592

PAPER NAME: COMPUTER NETWORKING LAB

STUDENT NAME: RUPAK SARKAR

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REGN. NO.: 213101001210001

YEAR: 3rd

SEMESTER: 5th

SECTION: BCA

SESSION: 2021-2024



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## “LIST OF ASSIGNMENT/EXPERIMENT SUBMISSION DETAILS”

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| **SL.**  **NO.** | **ASSIGNMENT / EXPERIMENT NAME** | **DATE OF ASSIGNMENT**  **/ EXPERIMENT DONE** | **DATE OF SUBMISSION** | **CHECKED BY** | **REMARKS**  **(ANY DEVIATION REGARDING SUBMISSION DATES, CONTENT, FORMAT, ETC)** |
| 1. | Write a Socket program to satisfy client request and server sending its IP address. | 31/10/23 | 31/10/23 |  |  |
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OBSERVATIONS / COMMENTS ON THE OVERALL PERFORMANCE:

Signature in full with date

Faculty / Technical Assistant

**Assignment-6**

**Q1. Write a Socket program: Client Request and server send its IP Address using TCP protocol.**

**File : IP Server.java**

import java.io.\*;

import java.net.\*;

public class IP\_server {

public static void main(String[] args) throws IOException {

ServerSocket ss = new ServerSocket(9000);

while(true){

System.out.println("Server is Running...");

System.out.println("Waiting for Client Query...");

Socket cs=ss.accept();

InetAddress ip = InetAddress.getLocalHost();//returns hostname/ip address

DataInputStream in = new DataInputStream(cs.getInputStream());

String msg = in.readUTF();

System.out.println("Client : "+msg);

DataOutputStream out = new DataOutputStream(cs.getOutputStream());

msg=msg.toLowerCase();

if(msg.contains("ip"))

{

String ipaddr=ip.getHostAddress();//returns ip address

out.writeUTF("Server : "+"Ip Address is "+ipaddr);

}

else{

if (msg.contains("name")){

String host\_name=ip.getHostName();//returns host name

out.writeUTF("Server : "+"Host Name is "+host\_name);

}

else{

out.writeUTF("Server : "+"Wrong Statement...inserted!!!");

}

}

System.out.println("reply Send...");

}

}

}

**File : IP Client.java**

import java.net.\*;

import java.io.\*;

public class IP\_client {

public static void main(String[] args) throws IOException{

Socket cs = new Socket("localhost",9000);

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

System.out.println("Client is Running...");

System.out.println("Enter Your Message here:");

String msg = br.readLine();

DataOutputStream out = new DataOutputStream(cs.getOutputStream());

out.writeUTF(msg);

DataInputStream in = new DataInputStream(cs.getInputStream());

String reply = in.readUTF();

System.out.println(reply);

}

}

**Output:**



