

ROYAL UNIVERSITY OF DHAKA

Program: B.Sc. (HON'S) in CSE/CSIT

Course Code & Title: CSE 232: Computer Algorithm Lab (Day)

Course Teacher: Ahmed Abdullah (01680076500, ahmed.abdullah@royal.edu.bd)

Assignment Topic:

How we prepare a data set to implement an Algorithm? using any csv file.

Submission deadline: 27th April, 2022

ROYAL UNIVERSITY OF DHAKA

Program: B.Sc. (HON'S) in CSE/CSIT

Course Code & Title: CSE 122/MS 502: Structure Programming Language Lab (Day+ M.Sc.)

Course Teacher: Ahmed Abdullah (01680076500, ahmed.abdullah@royal.edu.bd)

Assignment Topic: Write c code for followings:

- I. Compare string and pointer.
- II. String comparison, concatenate, copy, length.
- III. Explain function.

Submission deadline: 27th April, 2022

ROYAL UNIVERSITY OF DHAKA

Program: MSCSE

Course Code: MS 572 and Course Title: Data Structure and Algorithm Sessional

Course Teacher: Rowjatul Zannat Eshita

(Contact No: 01675742407, Mail: rowjatul.eshita@royal.edu.bd)

Assignment Topic:

Construct a Huffman tree by using these nodes.

Value	A	B	C	D	E	F
Frequency	5	25	7	15	4	12

Submission deadline: 27th April, 2022

ROYAL UNIVERSITY OF DHAKA

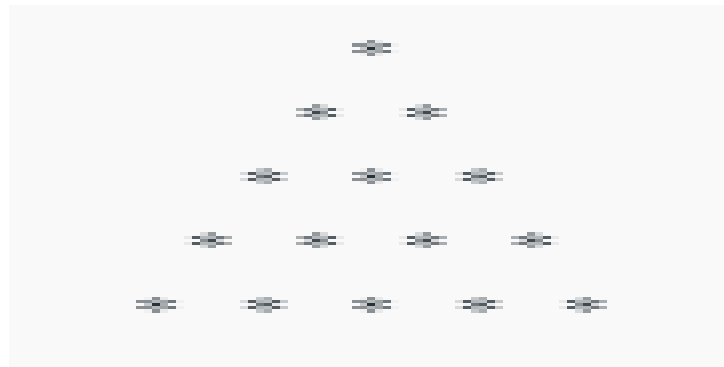
Program: B.Sc. (HON'S) in CSE/CSIT

Course Code: CSE 338, Course Name: Pattern Recognition Lab

Course Teacher: Md Khirul Islam Badal (01748864767, Khirul.badal@royal.edu.bd)

Assignment Topic:

- a) Write a program to implement N Queen problem using constraint programming approach where $n = 4$.
- b) Write a program to implement Hidden Markov Model.
- c) Write a program to display the following output:



Submission Deadline: 27th April, 2022.

ROYAL UNIVERSITY OF DHAKA
Program: B.Sc. (HON'S) in CSE/CSIT
Course Code: CSIT - 336, Course Name: Multimedia System Design Lab
Course Teacher: Md Khirul Islam Badal (01748864767, Khirul.badal@royal.edu.bd)

Assignment Topic:

- a) Write a python program to detect the following Ip addresses is valid or invalid
 1. 10.100.1000.10000
 2. 168.0.1.3
 3. 172.168.1.270
- b) Write a python program to get and display the computer username and IP address.
- c) Write a python program to convert a string to byte and display the output.
- d) Write a python program to implement a connection between a server and a client and send a message "Connection Successful" from server to client.

Submission Deadline: 27th April, 2022

ROYAL UNIVERSITY OF DHAKA
Program: B.Sc. (HON'S) in CSE/CSIT
Course Code & Title: CSE-322: Computer Peripheral & Interfacing Lab (Eve)
Course Teacher: Hasan Abdullah (01681523656, hasan.abdullah@royal.edu.bd)

Assignment

Assignment Topic:

How to make a traffic light system using Arduino in Tinkercad simulator? Show the output step by step.

Submission deadline: 27th April 2022.

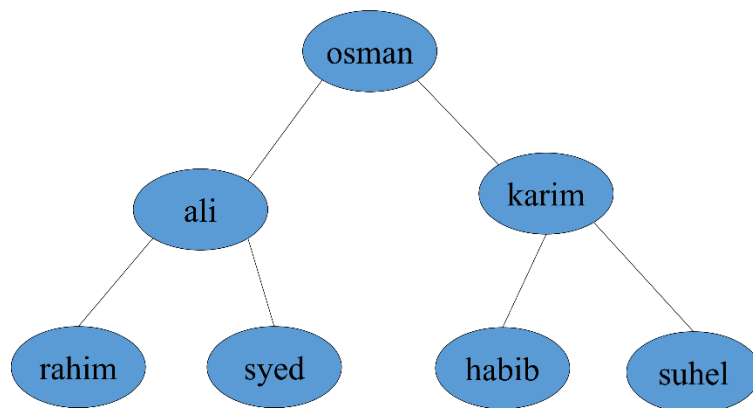
ROYAL UNIVERSITY OF DHAKA

Program: B.Sc. (HON'S) in CSE/CSIT

Course Code & Title: CSE-316: Artificial Intelligence Lab (Eve)**Course Teacher: Hasan Abdullah (01681523656, hasan.abdullah@royal.edu.bd)****Assignment**

Assignment Topic:

A family tree is given below where osman has two children named ali and karim. The father of rahim and syed is ali. On the other hand, karim has two children named habib and suhel. Now find out the all possible relationship using prolog.

Submission deadline: 27th April 2022.

ROYAL UNIVERSITY OF DHAKA

Program: B.Sc. (HON'S) in CSE/CSIT

Course Code & Title: CSE-312: Database Management System Lab (Day)**Course Teacher: Hasan Abdullah (01681523656, hasan.abdullah@royal.edu.bd)****Assignment**

Assignment Topic:

Create a table as "student" and the details are:

id	name	dept	adress	age	SSC	HSC
IT-01	Jobayer	ICT	Gazipur	20	5	5
IT-02	Habib	TE	Tangail	22	5	4.9
IT-03	Nayan	CSE	Dhaka	25	4.90	4.9
IT-04	Shahidullah	ICT	Gazipur	19	4.90	5
IT-05	Ripon	CSE	Dhaka	22	5	5

Perform the following:

- 1) Create a table and insert values following the above table.
- 2) Retrieve all information about student whose ssc result is 5 or hsc result is 5.
- 3) Find out all information about student whose city is not Dhaka or not Tangail.
- 4) Retrieve all information about client whose age from 22 to 25.
- 5) Find out all information about student whose names begin with the letters 'Na'.
- 6) Show some arithmetic operation from dual table
- 7) Return average, minimum, maximum and Summation of age column.

Submission deadline: 27th April 2022.

ROYAL UNIVERSITY OF DHAKA
Program: B.Sc. (HON'S) in CSE/CSIT
Course Code & Title: CSE 134, Data Structure & Algorithm Lab (Eve)
Course Teacher: Md. Nur-E-Arefin (01675025549, nur.arefin@royal.edu.bd)

Assignment

Assignment Topic:

Write down the theory, algorithm, C code and output of experiment 7 to 11 from the Lab Manual provided in the class. Must give proper screenshots of your work from Code-Blocks software.

Submission deadline: 27th April, 2022

ROYAL UNIVERSITY OF DHAKA
Program: B.Sc. (HON'S) in CSE/CSIT
Course Code & Title: CSE 312 - Database Management System Lab (Eve)
Course Teacher: Md. Nur-E-Arefin (01675025549, nur.arefin@royal.edu.bd)

Assignment

Assignment Topic:

Write down the experiment no 6 to 10 from the Lab manual given in the class. For experiment no 6, 8 and 10 you have to create the database table first and insert some values on the table. After that you have to run the code. Provide proper screenshots of your work.

Submission deadline: 27th April, 2022

ROYAL UNIVERSITY OF DHAKA
Program: B.Sc. (HON'S) in CSE/CSIT
Course Code & Title: EEE-102: Electrical Engineering Lab
Course Teacher: Md. Ealius Azam Sha (01676085809, ealius.sha@royal.edu.bd)

Assignment Topic:

Simulate the digital oscilloscope to examine time varying waveforms in order to determine the magnitude, frequency, phase angle, and other waveform characteristics which depend upon the interaction of circuit elements with the sources driving them.

Submission deadline: 27th April, 2022.

ROYAL UNIVERSITY OF DHAKA
Program: B.Sc. (HON'S) in CSE/CSIT
Course Code: CSE-112, Course Name: Computer Fundamentals Lab
Course Teacher: Shaikh Afnan Birahim (01711027668, afnan.birahim@royal.edu.bd)

Make a presentation of the 4th Industrial Revolution with Microsoft PowerPoint by using the techniques taught in class.

Submission deadline: 27th April, 2022.

ROYAL UNIVERSITY OF DHAKA
Program: B.Sc. (HON'S) in CSE/CSIT
Course Code: CSIT-314, Couse Name: Computer Network Lab
Course Teacher: Shaikh Afnan Birahim (01711027668, afnan.birahim@royal.edu.bd)

Configure a router in packet tracer using CLI commands by (i) Changing the router name to R1, (ii) Protecting the enable mode by setting the password name as Cisco and (iii) Setting the banner message as: Access denied by (Your Full Name). Send the packet tracer file.

Submission deadline: 27th April, 2022.

ROYAL UNIVERSITY OF DHAKA
Program: B.Sc. (HON'S) in CSE/CSIT
Course Code: CSE-234, Couse Name: Operating System Lab
Course Teacher: Shaikh Afnan Birahim (01711027668, afnan.birahim@royal.edu.bd)

Consider an operating system has 3 processes P1, P2 and P3 and 3 resources. The total amount of resources each process can store are 3, 4 and 5 consecutively. Detect if the system has deadlock or not with C programming. Send the screenshot of the result of the coding in email.

The request matrix and allocation matrix are given below for ease of calculation:

request matrix = $\begin{matrix} 2 & 0 & 4 \\ 5 & 2 & 1 \\ 2 & 2 & 1 \end{matrix}$

allocation matrix = $\begin{matrix} 2 & 1 & 1 \\ 3 & 4 & 2 \\ 1 & 3 & 4 \end{matrix}$

Submission deadline: 27th April, 2022.