



## Assignment No: 2

Programme: \_\_\_\_\_

Semester: \_\_\_\_\_

**Submitted by:-**

<b>Student Name :</b>	
<b>Enrollment No :</b>	
<b>Roll No. :</b>	
<b>Course Name:</b>	
<b>Date of Submission:</b>	

**Submitted to:-**

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**Department of Computer Science and Applications (CSA)  
Monad University  
N.H. 24, Delhi Hapur Road, Pilakhwa,  
Dist. Hapur (U.P.), India-245101**



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**Programme: BCA IV Sem**

**Course Name: COMPUTER ARCHITECTURE & ASSEMBLY LANGUAGE**

**Course Code: BCA-221**

**Assignment No: 2**

**Due date of submission: 20.04.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

- (a) What is Stack? Explain the PUSH and POP operations used with it
- (b) Explain the “Addressing Modes” in detail.

### **Q.2**

- (a) What is assembly language? Write all the rules of assembly language.
- (b) Explain the following:
  - (i) Direct memory Address (DMA)
  - (ii) Microprocessor



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**Programme: BCA IV Sem**

**Course Name: COMPUTER GRAPHICS & MULTIMEDIA APPLICATION**

**Course Code: BCA-222**

**Assignment No: 2**

**Due date of submission: 20.04.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

(a) As you are aware of transformations. So, you can explain three dimensional scaling, translation and reflection transformations in detail. Do it.

(b) As you are aware of clipping. So, you can explain polygon clipping with suitable example. Do it.

### **Q.2**

(a) As you are aware of viewing transformation. So, you can explain it with suitable diagram. Do it.

(b) As you are aware of animation. So, you can explain the types of animation. Do it.



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**Programme: BCA IV Sem**

**Course Name: JAVA PROGRAMMING**

**Course Code: BCA-223**

**Assignment No: 2**

**Due date of submission: 20.04.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

- (a) Explain with example exception handling in java.
- (b) Explain the inheritance with example in java.

### **Q.2**

- (a) Explain abstract class and method with example.
- (b) Explain package with example.



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**Programme: BCA IV Sem**

**Course Name: DATA WARE HOUSING & DATA MINING**

**Course Code: BCA-224-2**

**Assignment No: 2**

**Due date of submission: 20.04.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

- (a) As we know about data ware house. Now, discuss data mart and also differentiate it from data ware house.
- (b) Define Schema. Also explain star and snow flake schema in detail.

### **Q.2**

- (a) As we know about data mining. So, now you can explain a detailed architecture of data mining (KDD process). Do it.
- (b) We know that, there are several types of OLAP server. Explain ROLAP, MOLAP and HLOP with neat and clean diagram.



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**Programme: BCA IV Sem**

**Course Name: CRYPTOGRAPHY & NETWORK SECURITY**

**Course Code: BCA-225-1**

**Assignment No: 2**

**Due date of submission: 20.04.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

(a) As you know in network security there are many protocols for secure communication. So explain Secure Socket Layer in brief.

(b) As you are aware of the concept of symmetric key cryptography encryption. So, explain the DES algorithm in brief.

### **Q.2**

(a) As we have already discussed the algorithm of RSA in the class. So, solve the given question using RSA.

$P=17$ ,  $q=9$ ,  $e=7$  and  $d=21$ .

Calculate the public key and private key. And show encryption and decryption for plain text=5.

(b) As you know the concept of hashing? So, explain the concept of SHA.