



## MONAD UNIVERSITY, HAPUR (UP)

**Programme:** B.Tech(CS)

**Semester:** VI

**Course:** DIP

Assignment No: 2

Due date of submission: 22.04.2019

**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 Enrolment No. clearly at the top of the page.

**Q.1**

- a) Explain how Fourier transform is useful in DIP.
- b) Describe RGB color model with their color range values.

**Q.2**

- a) What are the components of pattern recognition system?
- b) Compare Image Enhancement and Image Restoration.



## MONAD UNIVERSITY, HAPUR (UP)

**Programme:** B.Tech(CS)

**Semester:** VI

**Course:** CNS

Assignment No: 2

Due date of submission: 22.04.2019

### **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 Enrolment No. clearly at the top of the 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 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.



## MONAD UNIVERSITY, HAPUR (UP)

**Programme:** B.Tech(CS)

**Semester:** VI

**Course:** BTCS-314 software Engineering

Assignment No: 2

Due date of submission: 22.04.2019

### **Instructions:**

4. Write the responses to the assignment in your own handwriting.
5. Submit the responses to your HOD within the due date.
6. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

Q1 (a): Define Case Tool? And explain architecture of Case Tool?

(b): What is the role of testing and explain type of testing?

Q2 (a): Explain the spiral model of software development. Differentiate it from prototype model?

(b): What is maintenance? Explain the type of maintenance?



## MONAD UNIVERSITY, HAPUR (UP)

**Programme:** B.Tech(CS)

**Semester:** VI

**Course:** BTCS-321 JAVA

Assignment No: 2

Due date of submission: 22.04.2019

### **Instructions:**

1. Write the responses to the assignment in your own handwriting.
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3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

Q 1 (a): Explain applet with life cycle of applet.

(b): What is exception with example?

Q2 (a): Write a program for addition of two numbers in java.

(b): Write a program to print a table of any number in java.

(c): What is inheritance and define its types in java with diagram.



## MONAD UNIVERSITY, HAPUR (UP)

**Programme:** B.Tech(CS)

**Semester:** VI

**Course:** BTCS Compiler design

Assignment No: 2

Due date of submission: 22.04.2019

### **Instructions:**

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2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

### **Q.1**

- (a) As you are aware of syntax directed translation. So, you can explain its scheme briefly. Do it.  
(b) As you know about symbol table. So, you can explain the different data structures for symbol table. Do it.

### **Q.2**

(a) As you are aware of errors. You will learn more about errors, if you attempt to explain the Lexical, Syntactic and Semantic phase errors. Go ahead.

(b) As you are aware of basic blocks. So, you can explain the optimization of basic blocks in detail. Do it.