



# Assignment No: 1

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

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

**Submitted by:-**

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

**Submitted to:-**

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**Programme: Diploma (CS) IV<sup>th</sup> Sem**

**Course Name: Data Structure**

**Course Code: DIPCS-221**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

### **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 Data Structure. So, you can explain the different types of data structures in detail. Do it.

**b)** As you are aware of an Array. So, you can explain 1-D and 2-D array and also explain their representation in memory with the help of an example of each. Do it.

### **Q.2**

**a)** As you are aware of Stack data structure. So, you will learn more about it, if you attempt to explain it with the help of an example. Go ahead.

**b)** As you are aware of flow chart. So, you can define and draw the flow chart to find the lowest number among three numbers. Do it.



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**Programme: Diploma (CS) IV<sup>th</sup> Sem**  
**Course Name: Database Management System**  
**Course Code: DIPCS-222**  
**Assignment No: 1**  
**Due date of submission: 12.03.2018**

### **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 history of database.
- b) Explain the advantages and disadvantages of Database Management System.

### **Q.2**

- a) Explain all the models of DBMS in detail.
- b) Explain all the data types of SQL in detail.



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**Programme: Diploma (CS) IV<sup>th</sup> Sem**

**Course Name:** Data Communication and Network

**Course Code: DIPCS-223**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

### **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 do you mean by Data communication? Explain all the components of it.
- b) What is OSI reference model? Define all the layers of it in brief.

### **Q.2**

- a) What do you mean by protocol? Explain in detail.
- b) Define the terms
  - i) Full-Duplex
  - ii) IEEE



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**Programme: Diploma (CS) IV<sup>th</sup> Sem**

**Course Name: OOPs With C++**

**Course Code: DIPCS-224**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

### **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 data types studied in last semester, now, discuss all the data types available in C++ and highlight the differences between C and C++ that you have experienced while programming.
- b) As you are aware of arrays and its implementation on C Programming. You will learn more if you write an Algorithm and a Program in C++ for the following problem:

To input 2-D arrays of integers of the size 3X3 and print its contents in the *Matrix* form. Also, perform a *Search* operation on this Matrix.

### **Q.2**

- a) As you know the syntax and application of loops very well. You may learn more if you write and perform two examples each of the following statements:

i) While loop

ii) For Loop

b) i) Enum

ii) Switch Case

iii) Conditional Statement



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**Programme: Diploma (CS) IV<sup>th</sup> Sem**  
**Course Name: Basics of Entrepreneurship Development**  
**Course Code: DIP-226**  
**Assignment No: 1**  
**Due date of submission: 12.03.2018**

### **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) Define and differentiate between management, administration and organization.
- b) Explain in detail about 14 principles propounded by Henry Fayol.

### **Q.2**

- a) Define different types of ownership
  - Sole Trading
  - Partnership
  - Joint Stock
  - Co-operative
  - Public Enterprise
- b) Define various leadership qualities and importance of human relation and motivation.