

## PROFESSIONAL TRAINING INSTITUTE

An ISO9001:2015 certified training institute



# **PROFESSIONAL**

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Assignment - XII

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### 1. Assignment XII

- **a.** Make a union of one int, 2 char and one int. Make memory map and analyze.
- **b.** Make union and structure for saving and printing time. The information should be min, hour, sec and day. We should able to update all the information together.
- c. Make to program to save min into 6 bits, hour into 5 bits, sec into 6 bits, day into 3 bits. Initialize and print the data using union and structure data type.
- **d.** Write a program to read 20 bytes from keyboard <u>one by one</u> and save them into some data type such that first 4 bytes are voltage 1, next 4 bytes are voltage 2, next 4 bytes are current 1, next 4 bytes are current 1 and remaining 4 bytes are min, hour, sec and day. Initialize the data type and print.

#### **2.** Theory question need to clear

- **a.** What is typedef? Where to use it?
- **b.** What is memory leakage in structure? How to avoid it?
- **c.** How many byte this structure will consume struct student {char name[5];};
- **d.** How many byte this structure will consume struct student {char name[5]; int age; char gender};
- **e.** What is difference between structure and union?
- **f.** What is the difference between array and structure?
- **g.** How many data types are their?
- h.