**C-Programming Lab Assignments, Aug-Dec 2016**

**Assignment-I**

**Programmes: B.Tech. CSE/ECE/EEE (Sem.-I) Duration: 1½ Lab Class**

**Objective: Writing programs to Print statements, variables and simple arithmetic operations.**

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**Assignment-I contains 12 Questions. Write C-programs for the all questions explained bellow. Then keep all the program in a folder, zip it and rename it by “Assignment\_1\_Roll” (For example “Assignment\_1\_ 16BTCSE01”) submit in Moodle.**

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| **Q1.** | Write a program to print a line “Programming can truly be fun!”. |
| **Q2.** | Write a program to add, subtract and multiply two numbers and display result with numbers. |
| **Q3.** | Write a program to read any two positive integers and display the numbers of integers present in between. Example: First: 10 Second: 20 Numbers of Integers in between 10 and 20 are : 9 |
| **Q4.** | WAP that will accept temperature in Celsius scale and convert it into equivalent Fahrenheit Scale.  Hints: °C \* 9/5 + 32 = °F |
| **Q5.** | Write a program to read any number and print the digits at 1’s, 10’s, 100’s and 1000’s place.  Example: Entered Number : 10  1’s Place: 0  10’s Place: 1  100’s Place: 0  1000’s Place: 0 |
| **Q6.** | WAP that will display your name, programme name, semester, roll no, place in the following manner. Example:  Name: Mr. Ashok Ku. Mohapatra  Roll No.:13BTCSE14  Programme Name: B.Tech. CSE  Semester: I  Place: Jyoti Vihar, Burla |
| **Q7.** | Interest Calculation: Your C-program will accept Rate of Interest (RI in Percentage), Principal Amount (PA), Years (Y) from keyboard, and calculate the, Simple Interest (SI) and Compound Interest (CI). Finally, it will display SI, CI after *Y*-years.  SI=PA\*RI\*Y  CI=PA\*(1+RI)Y |
| **Q8.** | Average and aggregate marks: WAP that will accept student’s marks in five different subjects through keyboard and that will calculate total marks and percentage marks obtain by the student. Assume that the maximum mark of each subject is 100. |
| **Q9.** | Accept the distance in KM through the keyboard. WAP to convert and print this distance in meters, feet. |
| **Q10.** | Two trains are running opposite to each other with speed *V1* and *V2 Kmph* respectively and distance between both the train is *D in Km*. WAP that will calculate the time required by trains to meet each other and display. |
| **Q11.** | A, B and C can do a piece of work in *N1*, *N2* and *N3* days respectively and all three can finish the work in N4 days. WAP that will take N1, N2, N3 and compute and display N4. |
| **Q12.** | Interchange the values of two variables without using a third variable.  Example: X, Y are two variables  Step 1: X=X+Y  Step2: Y=X-Y  Step3: X=X-Y |
| ***Assignment Ends Here*** | |