**C Language Live Community Classes**

**Assignment 1 Solution………………………………………!**

1. Why do computers understand only binary language?

>> We know that binary language is represent any type of data in 0 & 1 here 0 & 1 is a mathematically represent any kind of data. Computer is an electronic device and it has many types of machines inserted just like Ram Hardik Rom CPU etc. and inside integrated small capacitors circuits and here data store type is charged or not charged in capacitor in ram where hard disk store data way is North pole and south pole but know we for understanded how data store in here we are representing 0 & 1. There is no physical significant to 0 and 1 in the computer but our understanding to information can store as sequence of 0 and 1 so we say that computer can understand only binary language but 0 & 1 is nothing in computer.

1. What is the full form of IDE?

>> The full form of IDE is Instigated development environment, many types of IDE in market popular IDE just like code block’s, vs code, dev cpp etc.

1. What is the difference between a text editor and a code editor?

>> The text editor provided to writer text, edit text but it is not provided other useful options just like we don’t use compilation, testing, debugging and so on. Where code editor, provides many useful options just like here we write code, edit code testing, editing, debugging and son on so that things is define difference between text editor and code editor.

1. What are the steps to develop software using the C language?

>> 1st We write code in source code in source file on IDE that files extension is .c

>>2nd We build source file, in build process running pre-processor compiler and linker finally linker create software that extension is .exe executable file.

1. Explore by Sagar Kumar….
2. What is the latest version of C language?

C17 is a latest version of C language. C17 published in June 2018 as ISO/IEC 9899:2018.

1. Who develop C language?

C language has been designed and developed by Dennis Ritchie at Bell Laboratories USA in 1972.

1. What is difference between System and Application Software?

The main difference between system software and application, system software develop for system machines uses that closely work for systems but application software is made of application that use users just like photoshop notepad and others app here user direct interact applications and use.

1. How to convert a number from a decimal number system to a binary number system?

Example convert 255 into the binary number system

Step 1. Identify the base of the require number. Since we have to convert the given number 5 into the binary number, the base of the required number is 2 because binary number system base is 2 ( 0 & 1)

Step 2. Divide the given number by the base of the required number 2 and note down the quotient and the remainder in the quotient-remainder from. Repeat this process (dividing the quotient by the base) until we get the quotient less then the base.



2 255



2 127 **1**



2 63 **1**

2 31 **1**



2 15 **1**

2 7 **1**



2 3 **1**

2 2 **1**

**1**

Step 3. The given number in the binary number system is obtained just by reading all the remainders and the last quotient from bottom to top.

Therefor ,255 = 11111111

Thank you mysirg and ineuron for giving me this opportunity!

Name : Sagar Kumar