**Date: 08 Feb 2024**

Time: 07:00 PM

Day 1

Course: CSE Bootcamp

1. Course details

- Prequisite :

- English [Intermediate], basics computer,

- No programming background.

- myth: diffcult

[What, why, when, how, which]

**TOPIC: INTRODUCTION TO COMPUTER, PROGRAMS, SOFTWARE, PROGRAMMING LANGUAGE, JAVA**

Computer - Compute [calculations]

input -> processes -> output

0 and 1

0 no voltage

1 high voltage

Binary Number Systems (0, 1)

Octal Number Systems (0,1,2,3,4,5,6,7)

Decimal Number System (0,1,2,3,4,5,6,7,8,9)

Hexadecimal Number System (0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F)

What is a program? Set of instructions given to a computer to perform a certain task.

What is a software? group of multiple programs

Programming -> Writing instructions to the computer to get the task done.

Programming Language -> It is a languaguare used by programmers to communicate with the computer

Binary Language ->

Assembler ->

High Level Language ->

C, C++, Java, Python, etc.

Core Java ->

Platform independent

Simple

Object Oriented Language -> It is a way to represent real world entities in programming e.g a chair. It has four legs(properties). Anyone can sit on the chair(Behaviour)

C ->

code -> compiler -> binary code .exe

Platform Independence ->

Java Code -> Compiler -> Intermediatory code/ Byte code -> platform independent -> binary code

WORA - write once run anywhere

jdk - java development kit

jre - java runtime environment -> platform dependent

JVM - java virtual machine -> platform dependent

Frontend -> Wahtever we see on the screen is called as frontend

Server - A machine that is ON 24/7.

Types of Application -

Standalone Applications

Web Applications

Enterprise Applications

Console Based Applications

What is the difference between website and web application?

Website is static whereas web application is Dyanmic

What is static data?