19-11-2025

Summary of Today's class:

Today's class focused on making us comfortable with jupyter notebook. Like writing code in notebook in a small blocks called 'cells'. We got to know about using of markdown, raw features of Notebook.

We got to know the keyboard shortcuts for the function which are present in the jupyter notebook.

We created a example for code block markdown feature which is basically used for titles & raw feature is used for paragraphs of text.

Being comfortable with Jupyter Notebook was about first half of class later on we started with python. To start any new language in programming first we need to know it's history or basic things about that specific programming language. So the second half of the class was on:

* What is Programming:
   is the process of giving instructions to a computer to perform tasks. Those instructions are written in a special language called programming.

* What is Programming Language:
   is a language used to write instructions to a computer which it can understand & execute those instructions.

* What are different levels of Programming Languages: They are three levels:

1. Machine Level Language:
   Written using 0s & 1s binary code which is faster for computer.

2. Low-Level Language:
   Generally known as Assembly language which uses short codes.

3. High-Level Language:
   which is easy to read & write; human understandable languages comes under this.

*. What is Python:

   is a high-level, interpreted & general purpose programming language.

* Who is the Developer of Python:

      Guido Van Rossum, started in 1989 & first released in 1991.

*. Features, Advantages & Disadvantages of Python:

Features of Python:
- Simple & easy to learn.
- High level language.
- Interpreted language.
- Large standard library
- Supports OPP's.

Advantages of Python:
- Fast development speed.
- Cross-platform.
- Very easy syntax.
- Supports many libraries.
- Good for prototyping.

Disadvantage of Python:
- Slow compared to c/c++ & Java.
- Not ideal for mobile opp development.
- Uses more memory.
- slower execution in real time system.