**Day-03**

**24-02-2025**

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**Python Program:**

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**Prerequisites for python program:**

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 Python software

**Python Features:**

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1) Free software

2) Open source programming language

3) Easy programming language

 because it has the simple syntax

**Python Software Installation:**

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-> Official website, from that place we need to download the python software.

 i) open the browser

 ii) search about "python.org".

 iii) Click on "downloads"

instead of doing above all steps, use the below link for navigating to the downloads page of "python.org".

 "https://www.python.org/downloads/"

-> According to your system configuration, you can start download the python software.

-> After the downloading:

 we need to start the installation.

 i) Run the downloaded file by click on the file.

 ii) Select "Add python.exe to PATH"

 iii) To install the python software into your C-drive automatically, then click on "Install now" option

 Otherwise, when you want to install the python software into the defined folder, we can use "customize installation" option.

 iv) click on "next"

 v) click on "Browse"

 vi) Select your folder

 vii) click on install

 viii) click on "close".

-> After the installation, we need to check whether the python software has installed successfully or not.

 i) open the command prompt

 ii) type a command "python --version"

 after this command, if we have the python version on the screen, then we can understand that python software has installed successfully.

 Otherwise, not installed.

-> Python Program:

 can write two ways:

 1) Static program

 2) Dynamic Program

-> Static program can process the same input and provide the same output on the multiple executions.

Ex:

a = 10

b = 20

c = a + b

print(c) # 30

-> Dynamic program can provide the output based on the input what we can processed during the execution of the program.

Ex:

a = input() # 100 120

b = input() # 200 240

c = a + b

print(c) # 300 360

**Where We can write python programs:**

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1) using python idle

2) using Text editors

3) using IDE (Integrated Development Environment)

4) using AI tool

**Static program using python idle:**

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1) start the python idle

2) start writing of the program

3) click on enter

**Static program using Text Editors:**

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1) open the notepad file

2) save the notepad file as python file into any folder.

 python file ==> .py extension.

3) Start writing of the python program into the created file.

4) Save the program (ctrl + s)

5) Copy the python file location

6) start the command prompt

7) navigate to the python file location from the command prompt using below command.

 $ cd file\_path

8) Execute the python file which is located in that navigated folder by following the below command.

 $ python python-file.py

 or

 $ py python-file.py

Ex:

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print("Hello")

print("Good Evening!")

print('Welcome To Ashok IT.')

**Static program using AI platform:**

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Colab

print("Hello")

print("Good Evening.")

print("Today we are learning the static program using python.")