**Day-05**

**24-02-2025**

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**IDE (Integrated Development Environment)**

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-> Software can be used on various platforms

 to write efficient codes/scripts using python

 in faster and more relevantly we can use "IDE".

-> There are many IDEs are available:

 Like:

 PyCharm, VS Code (Visual Studio),

 Sublime Text, Jupyter notebook etc.

-> Other options to write python programs are:

 In online:

 AI tool

 Colab

**PyCharm Installation:**

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Organization: JetBrains

-> To download the PyCharm:

 Open the Chrome

 search about: "PyCharm download"

 click on the first link

instead of doing all these, use the below link to navigate

 to the PyCharm software location:

 "https://www.jetbrains.com/pycharm/download/?section=windows"

-> JetBrains has provide the two options for PyCharm to work:

 1) PyCharm Professional ==> Available for 30 days as trail pack

 after that we need to pay to get the license to use.

 -> can be used for "data science", "web application" etc.

 2) PyCharm Community Edition

 -> free and open source

 -> Pure python development etc.

-> We need to download "PyCharm community" for practice.

 click on the download link of "PyCharm community".

 then the download can start.

-> After the downloading, click on that file to install.

-> Then:

 i) click on "yes"

 ii) click on "next"

 iii) if you want to keep the PyCharm in C/Program files location then: click on "next"

 otherwise:

 create a folder in desired location

 click on browse

 select your folder

 and click on ok

 finally, click on "next".

 iv) Click on "Create Desktop Shortcut"

 v) Click on "Update PATH Variables" then: click on "next".

 vi) Click on "Install".

 vii) Click on "finish".

**Setup on PyCharm:**

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1) Changing of the Theme:

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 click on "customize"

 In Appearance:

 Theme:

 select your theme

2) Changing the font:

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 In Customize option:

 Accessibility

 click on IDE Font to select your required font.

3) Create the New Project:

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 click on "new project"

 Select your location where you want to keep all practices with PyCharm

 add your project name as "\DevopsPython"

 finally, click on create.

4) Add sub folders into your project folder:

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 Select your project folder

 Right click of your mouse

 click on new

 Click on "Directory"

 Enter your Title for the directory then hit enter.

5) Create the python file into the sub folder:

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 Python file ==> used for writing of static or dynamic programs.

 Select your sub folder

 Right click of your mouse

 click on "new"

 click on "python file"

 enter the title for the python file and click on enter.

Example for the static program:

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number1 = 121

number2 = 232

add = number1 + number2

print("The sum of Numbers = ",add)

Writing of the static program using Colab:

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Steps:

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 1) Open the browser

 2) Search about: "Colab"

 3) Click on "Welcome to Colab"

Instead of the all the above steps, use the below link to navigate the "Colab"

 "https://colab.research.google.com/"

 4) Click on "sign in".

 and enter your mail and password to get sign in

 5) Click on "connect"

 6) Go to file and click on "new notebook in Drive"

Example program using Colab:

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a = 1234

b = 4321

s = a+b

print("The Sum of two numbers = ",s)

**Dynamic Program:**

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-> To write the dynamic program, we need:

 1) Memory Statement

 2) Input Statement

 3) Output Statement