

25/7/22

Monday.

* What is python -

python is object oriented procedure oriented platform independent open source programming language.

- It used for developing websites and software, task automation, data analysis, and data visualization.

* Python Features -

- It is simple & easy to learn
- procedure and open source
- platform independent
- Rich Library
- portable
- Extensible
- Interpreted
- Dynamic Memory allocation
- High level Interpreted language
- Extensible
- It is free.

we also learn about open source

- open source means its authors make its source code available to others who would like to view that code, copy it, learn from it or share it
 - It means that its source code is freely available to use, modify, and redistribute.
 - It allow user to freely modify a work.
- basically I learned about what is python? And python features through which I got the basic knowledge about python as well as source code.

Dated signature of Faculty -
Faculty Remarks -

Dated signature of Faculty -
weekly assessment marks -

• We can also installed the setup of python

I download the version of python 3.6.8

Step 1: Firstly go on google and search python 3.6.8

Step 2: Then we can see the python 3.6.8 link click on this

Step 3: select the windows x86-64 executable installer from the files.

Step 4: We can see some features, click on the all features and select Next button

Step 5: Then we got the Advanced option click on the all options and ~~select~~ ~~on~~ install button.

Step 6: before click the install button we can customize install location C:\python36 from C:\python program files \python 36 and click on Install button.

Step 7: Then we can see the page of IDLE (python 3.6.64-bit)

Step 8: Then click on the customize installation and also click option ☐ Add python 3.6 to PATH and ~~select~~ go on

Step 9: python setup is installed

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Tuesday

I learned about the GitHub

GitHub:

- It is collection of Repository | Files | Folders
- It is a cloud base
- It is also virtual storage
- web-based interface that uses Git, the open source version control software that lets multiple people makes seprate changes to web pages at the same time.
- All of the core GitHub features are now free for everyone.

I have created my own GitHub account

Here the steps for account creation.

Step 1: open <https://github.com> in a web browser and then select sign up

2nd step - Enter your email address

3rd step - create password for your new GitHub account, and Enter a username next, choose whether you want to receive updates and announcements via email, and then select continue.

4th step - verify your account by solving a puzzle, select start puzzle button.

5th step - After your account verify.

So here, we complete the setup of GitHub account creation, and also give information about the GitHub.

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Wednesday

Day 3

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★ In github I also learned How to create
New Repository

Repository \Rightarrow you can store a variety of projects in Github repository. including open source projects.

• Here the steps about How to create New Repository

Step 1 - In the upper right corner of any page, use the + drop-down menu and select New Repository

Step 2 - Type a short Name of your Repository for ex - I have created 'python_Internship'

Step 3 - optionally, add a description of your repository

Step 4 - Choose a repository visibility

• public • private

- I have chosen the • private

Step 5 - Select initialize this repository with a README

steps: Click create Repository.

* I have also download the GitHub Desktop

Step 1 - visit the download page for GitHub Desktop.

Step 2 - click Download for windows

I have Download for windows
64 bit

Step 3 - In our computer's Downloads Folder,
Double click the GitHub Desktop setup
File

Step 4 - GitHub Desktop will launch after
installation is complete.

Here we have to ~~also~~ cloning a Repository

- 1) In the file menu, click clone Repository
- 2) click the tab that corresponds to the location of the repository you want to clone. You can also click URL to manually enter the repository location.
- 3) choose the repository you want to clone from the list.
- 4) click choose and navigate to a local path where you want to clone the repository
- 5) click clone

* When you clone repository, you copy the repository from GitHub.com to your local machine

* Cloning a repository pulls down a full copy of all the repository data that GitHub.com has including files.

Thursday

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Day 4.

PAGE NO.

DATE:

★ I have download the Visual Studio Code

- visual studio code is a free source - code editor
- It support for debugging, syntax, code refactoring and Git.

Here the steps -

step 1 - Search on google download visual studio code.

step 2 - Download the visual studio code installer for windows, once it is downloaded, run the installer then, run the file

step 3 - Accept the agreement and click "Next"

After accepting all the requests press finish button.

step 4 - If the installation is successful you can see the some option

Step 5 - For writing the code in it we can press control + N button. then New file is open

Step 6 - we can write the code Here

I have written a program HelloWorld

(1)

```
print ("HelloWorld");
```

(2) 1. # this is my first program, this is single line comment.

2 print ("HelloWorld");

3 ''' this is multiline comments

4 this is line 1

5 this is line 2

6 '''

7

8

9 this is line n

10 '''

Here we use single line comment and multiline comments

This is Different types of comments in python

There are 3 Types

1) single-line

2) multi-line

3) docstring comments

- single line comments begin with the "#"
Anything that is written in a single line after "#" is considered as a comment
Syntax - # comments here

- Multiline comments

- python does not support multiline comments.
- You can use the first way is by using # at the beginning of each line of the comment
- Next way is by using string literals but not assigning them to any variables.
You can either use a single (") quotation or double (") quotation.
- You can also use multiline strings for commenting - use either a " or "" quotation marks three times

we also learned about the Terminal In visual studio code.

- It provide integration with the editor to support features like links and error detection.

To open New Terminal use (window, Linux ctrl+)

I have also compile my Helloworld program in Terminal

→ C:\user> cd ..

C:\> cd .\github\python_Internship (It is local path)

C:\github\python_Internship>

C:\github\python_Internship> cd .\Day_3

C:\github\python_Internship\Day_3> python Helloworld.py

Hello World (Here the output)

Friday
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- What are Python modules?

Modules provide us with a way to share reusable function. A module is simply a "python file" which contain code we can reuse in multiple python program.

A module may contain functions, classes, lists etc.

Modules in Python can be of two types

- 1) Built in Modules
- 2) user-defined modules

* Built in Modules

It comes with a "rich standard library".

This rich standard library contains lots of built-in modules. Hence, it provides a lot of reusable code.

To name a few python contains modules like "os", "sys", "datetime", "random".

You can import and use any of the built-in modules.

* user defined modules

Another superpower of python is that it lets you take things in your own hands.

you can create your own functions and classes, put them inside modules.

Whenever you want to create a package, then you have to include `-init-.py` file in the directory

So, we learned about the python modules and also got the information why we used, we used modules to break down large program into small manageable and organized files.

and also understand ~~th~~ about types of python modules.

Dated Signature of Faculty -

Weekly assessment marks -