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Mr.Narendra Agrawal Sr.Anjely

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**Introduction to language**

**1.1) Introduction to Python**

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed.

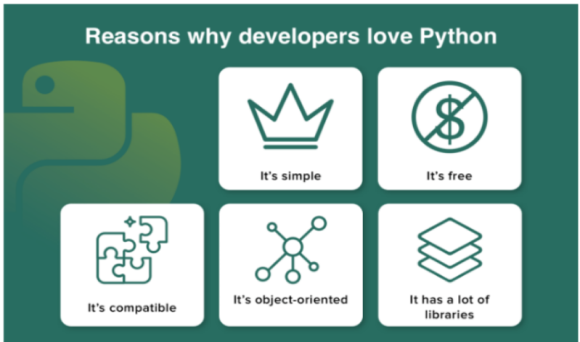


History of Python:

Python is a widely used general-purpose, high-level programming language. It was initially designed by Guido van Rossum in 1991 and developed by Python Software Foundation. It was mainly developed for emphasis on code readability, and its syntax allows programmers to express concepts in fewer lines of code.

**1.2 Advantages Over Another Language**

Let’s start with the basics. Python was created approximately 40 years ago. Since then, a lot of websites and software were developed with the help of this technology.



Let’s discuss the reasons why many companies choose Python for developing their products.

Simple

Python is a readable and understandable language. As a result, when a problem occurs, the developer can focus on it, not on the language complexity.

Free of charge

This programming technology is free and open. The developers can share, copy, and change it. As a result, Python has a good community and evolves fast. As for the community, it provides an opportunity to share knowledge with junior specialists.

Compatible

Python offers compatibility with various platforms. So, the developers don’t face the issues that are common for other languages.

Object-oriented

Python supports procedure-oriented and object-oriented programming. The first type offers to apply reusable pieces of code. As for OOP, it utilizes objects that are based on data and functionality.

Various libraries

There are a lot of libraries for Python. As a result, the developers can manage documentation, databases, web browsers, perform unit testing, and so on. Additionally, Python can be used for many tasks, e.g. web and desktop apps development, complex calculation systems, life support management systems, Internet of Things, games, and more.

**1.3 Disadvantages of Python**

Slow Speed

We discussed above that Python is an interpreted language and dynamically-typed language. The line by line execution of code often leads to slow execution.

Not Memory Efficient

To provide simplicity to the developer, Python has to do a little tradeoff. The Python programming language uses a large amount of memory. This can be a disadvantage while building applications when we prefer memory optimization.

Weak in Mobile Computing

Python is generally used in server-side programming. We don’t get to see Python on the client-side or mobile applications because of the following reasons. Python is not memory efficient and it has slow processing power as compared to other languages.

Database Access

Programming in Python is easy and stress-free. But when we are interacting with the database, it lacks behind.

The Python’s database access layer is primitive and underdeveloped in comparison to the popular technologies like JDBC and ODBC.

Runtime Errors

As we know Python is a dynamically typed language so the data type of a variable can change anytime. A variable containing integer number may hold a string in the future, which can lead to Runtime Errors.

**1.4 USES OF PYTHON**

Python is commonly used for developing websites and software, task automation, data analysis, and data visualization. Since it’s relatively easy to learn, Python has been adopted by many non-programmers such as accountants and scientists, for a variety of everyday tasks, like organizing finances.

**1.5 RANKING OF PYTHON IN CODE WORLD**

As part of the release, TIOBE announced that Python had been awarded its top programming language of the year for a record-setting fourth time. TIOBE explained that it awards the annual title "to the programming language that has gained most popularity in one year." In 2020, Python gained 2.01% just ahead of C++ and C, which jumped 1.99% and 1.66%, respectively, per TIOBE.

**Introduction of Project**

**2.1 About project**

**“**Bank management System”, This project is useful for the bank employees as well as customers to keep a track of account details. The emerging of digital system made information available on finger tips. By automating the transactions one can view the details as and when required in no time. This project emphases on creation of new customer accounts, managing the existing account holders in the bank, by making digital system one can generate daily reports, monthly reports and annual reports which can enhance the system**.**

**2.2 Objective of project**

The objective of this project is to let the students apply the programming knowledge into a real- world situation/problem and exposed the students how programming skills helps in developing a good software. Write programs utilizing modern software tools. Apply object oriented programming principles effectively when developing small to medium sized projects Write effective procedural code to solve small to medium sized problems. Students will demonstrate a breadth of knowledge in computer science, as exemplified in the areas of systems, theory and software development.

**2.3 What kind of problem you faced during coding of project and how you overcome of all this “bugs”.**

While making this project, I got too man difficulties, some are noted below :

* Too many bugs while running the script. so I had taken help of my friend. I had given him particular part where I can’t find out.
* While connecting a database from python.so I had take direction from my teacher.
* Errors in some lines ,so too overcome this I had divide the code into many part and analysed ,then i merge them all.

**2.4 What make your project different to others project?**

My project is different because in this , I had given many minute details on how we can make a simple table in mysql within our shell.so that user will not get any problem, or checking our account easily And my code is short , simple and concise.

And my topic is unique because nowdays, we see that banking sector is also shifting on online system ,so for management of that I had made this project .

we see that some banks have a online systems but they have some bugs in their interface of their websites so by observing their mistakes I had try to cover all that problems.

**2.5 Package/Module used in the project short description of the Module.**

MySQL provides standards-based drivers for JDBC, ODBC, and .Net enabling developers to build database applications in their language of choice. In addition, a native C library allows developers to embed MySQL directly into their applications.

**2.6 What are the positive and negative points of your project**

**Positive points:**

* code is easily understandable
* project has many option for users to get his/her work easily done
* project do

**4. System implementation**

I.Operating system : windows 10

II. Processor : Pentium(any) or AMD

ATHALON (3800+- 4200+ DUALCORE)

III. MOTHERBOARD : 1.845 OR 915,995 FOR PENTIUM 0R MSI

K9MM-V VIAK8M800+8237R PLUS CHIPSET FOR AMD ATHALON

IV. RAM : 512MB+

V. Hard disk : SATA 40 GB OR ABOVE

VI. CD/DVD r/w multi drive combo: (If back up required)

VII. FLOPPY DRIVE 1.44 MB : (If Backup required)

VIII. MONITOR 14.1 or 15 -17 inch

IX. Key board and mouse

X. Printer : (if print is required – [Hard copy])

**SOFTWARE REQUIREMENTS:**

Windows OS

Python