

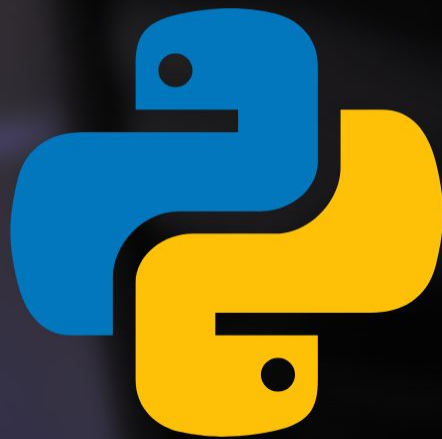
Day 1

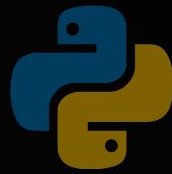
Presented on June 20, 2021

BEGINNER'S COURSE ON

PYTHON

VIRTUAL SESSION (JUNE 20- JUNE 24)

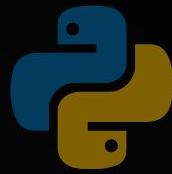




Akif Islam

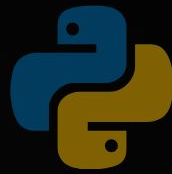
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Ground Rules

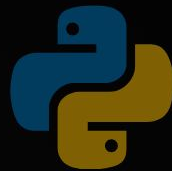
- Don't just watch, try yourself too 😊
- Don't let me sleep ! 😞
- Don't worry about **slides** and **recordings** 😇
- Make your **PYTHON** ready ! 😎



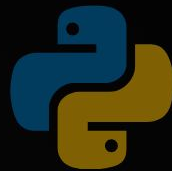
Choose your level of experience in Programming / Python :

(Write on chatbox)

- A. Didn't ever write a single line of code in Python**
- B. Know a little bit about Python**
- C. Good at Python**
- D. Experienced in Python**



**Why
do
you
want to learn
programming?**



**Why
we
have
chosen
Python
over C++ or Java?**



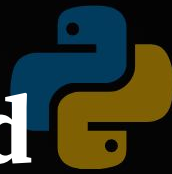
- **Simple programming syntax,**
- **Code readability**
- **English-like commands etc.**



Top advantages of Python

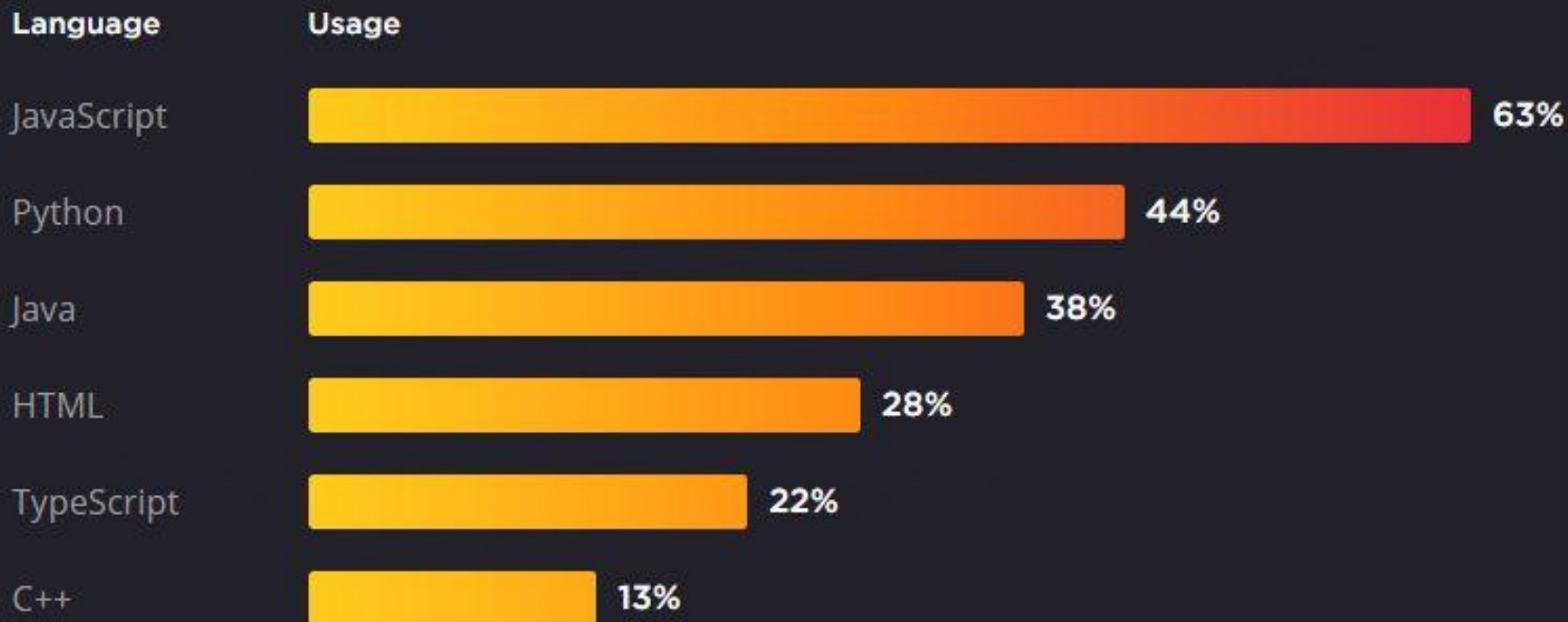
- **Large community**
 - Open-source
- **Robust and extensive library**
- **support availability**
 - User-friendly data structure
 - Supports Object-oriented programing paradigm

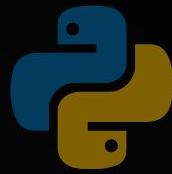
Many global brands around the world use python for backend development.



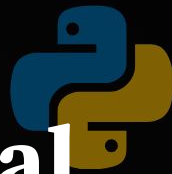
- Instagram
- Netflix
- Facebook
- Reddit
- Google
- etc

Most Commonly Used Programming Languages by Software Engineers





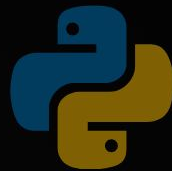
**Why
Python
is called
programming
'language' ?**



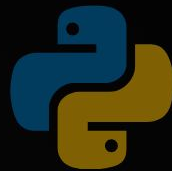
What is the difference between natural language and programming language?

- Natural languages are used for communication between people
- programming languages enable human to interact with machines.

Programming languages need a high degree of expertise, completeness and precision because computer can not think outside the statement while in speaking, some minor errors are ignored.



Is
it important
to know a lot of
MATH
for programming?



Let's **TALK** With computers

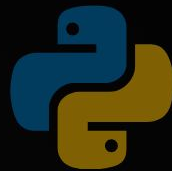


Let's get ready!

- Install Python
- Install **PyCharm**

Video Tutorial :

<https://youtu.be/j-IHogyAaK0>



How to write
“Hello World”
in different languages?

Binary Code



01001000 01100101 01101100 01101100 01101111
00100000 01010111 01101111 01110010 01101100
01100100 00100000 00100001

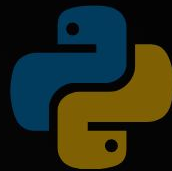
* This is the binary representation of "Hello World"

Java



```
class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, World!");  
    }  
}
```

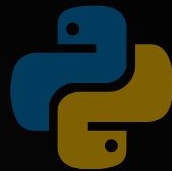
C++



```
#include <iostream>
```

```
int main() {  
    std::cout << "Hello World!";  
    return 0;  
}
```


Python



```
print("Hello World")
```



Variables

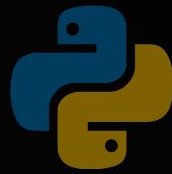
We use variables to *temporarily store data in computer's memory.*

```
price = 10
```

```
rating = 4.9
```

```
course_name = 'Beginner's Course on Python'
```

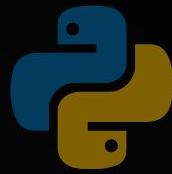
```
is_published = True
```



Variables

In the previous example,

- price is an **integer**
(a whole number without a decimal point)
- rating is a **float**
(a number with a decimal point)
- course_name is a **string**
(a sequence of characters)
- is_published is a **boolean**
(Boolean values can be True or False)



Class Task

Suppose,

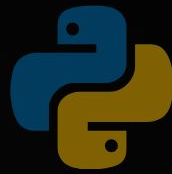
```
a = 50 ;
```

```
b = 150;
```

Now print the sum of this two number.

Output :

The addition of 50 and 150 is 200

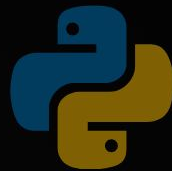


Receiving Inputs

We can receive input from the user by calling the `input()` function.

```
birth_year = int(input('Birth year: '))
```

The `input()` function always returns data as a string. So, we're converting the result into an integer by calling the built-in `int()` function.



Strings

We can use formatted strings to dynamically insert values into our strings:

```
name = 'Akif Islam'
```

```
print( f"Hi, my name is {name}")
```

#Output : Hi, my name is Akif Islam



Home Work (Day 1)

1. Write a program that will print -
Elon Musk said - "Don't confuse schooling with education. I didn't go to Harvard but the people that work for me did."
2. Write a program that will take 2 integer input and output their sum.
Input : 2 9 Output : 11
Input : 5 21 Output : 26