

# Day 2

**Presented on June 21, 2021**

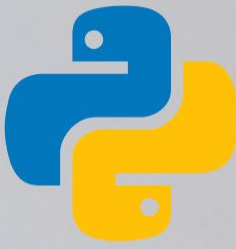
# Important Links :

Online MakerSpace (Facebook Group)

Day 1 Lecture (Recorded)

Day 1 Slides

Arduino Community Bangladesh (Facebook Group)



I'm  
The  
"Cat"  
(String)

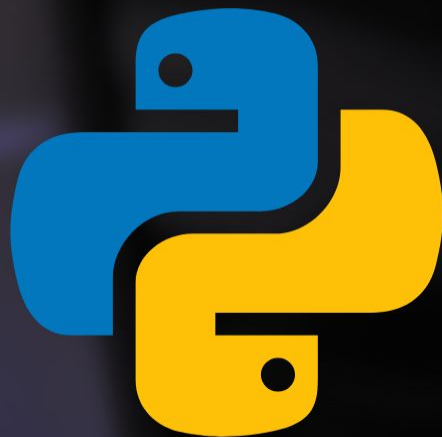


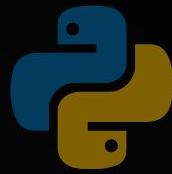
*Akif Islam*

BEGINNER'S COURSE ON

# PYTHON

VIRTUAL SESSION (JUNE 20- JUNE 24)

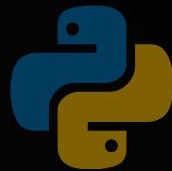




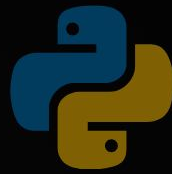
# Akif Islam

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# Quick Recap



**# 1. Printing Hello World**  
**print("Hello World")**





## # 2. How Python code executed?

```
print('A')
```

```
print('B')
```

```
print('C')
```

**# Output : A B C**

**# Top to Bottom**



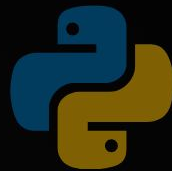
## # 3. Print the value of a variable

### # Formatted String

```
myname = "Akif"
```

```
print(f"Your name is {myname}")
```





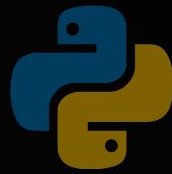
# # 4. Pycharm and Terminal are same !

```
akifislam — python3 — python3 — Python — 80x24
Last login: Sun Jun 20 19:53:43 on ttys000
➔ ~ python3
Python 3.9.1 (default, Jan  6 2021, 06:04:49)
[Clang 12.0.0 (clang-1200.0.32.28)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
[>>> myname = "Akif"
[>>> print(f"Your name is {myname}")
Your name is Akif
>>> █
```



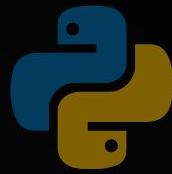
## # 5. Taking Input from User

```
myname = input("What's your name?")  
print(f"Hi {myname} ")
```



## # 6. Taking Input from User

```
myname = input("What's your name?")  
fav_colour = input("What's your favourite colour?")  
print(f"{myname}'s favourite colour is {fav_colour}")
```



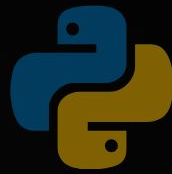
# # 7. Different Data Types

**int** means 'Integer' # 1,2, 3, 4

**float** means 'floating point value' # 1.23, 42.12

**boolean** can only be **True** or **False**

**String** means **any sequence of characters** # "Cat", "Akif"



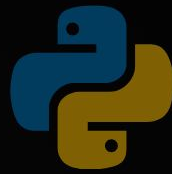
## # 8. Type Conversion

`a = "2021"` # it is a string

But `int(a)` is an integer

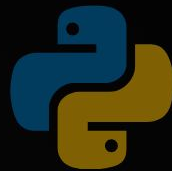
`'2021' + 5 = ?` # Error

`int('2021') + 5 = 2026`



# Strings Functions





# Strings

```
course = 'Beginner's Course on Python'  
course[0]    # returns the first character  
course[1]    # returns the second character  
course[-1]   # returns the first character from the end  
course[-2]   # returns the second character from the end
```



# Strings

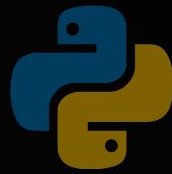
`message.upper()` # to convert to uppercase

`message.lower()` # to convert to lowercase

`message.title()` # to capitalize the first letter of every word

`message.find('p')` # returns the index of the first occurrence of p (or -1 if not found)

`message.replace('p', 'q')` #replace character p with q

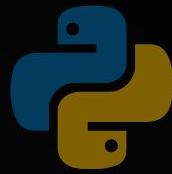


# Class Task

Write a program that takes a string as input. Then it will change all occurrence of its first character to '\*'

Suppose

- **AAABBBCCCD ---> \*\*\*BBCCCD**
- **ABBA ---> \*BB\***

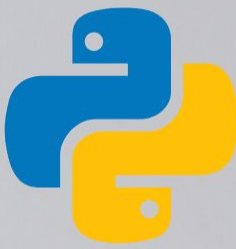


# Arithmetic Operations

## Arithmetic Operations

- +
- 
- \*
- / # returns a float
- // # returns an int
- % # returns the remainder of division
- \*\* #exponentiation- $x^{**}y = x$  to the power of  $y$

# Thank you



I'm  
The  
"Cat" (String)



Yes

*Akif Islam*