

FREE PYTHON | EVERYONE LEARN TECH

THIS IS THE EVERYONE LEARN TECH'S PYTHON COURSE THE INSTRACTOR OF THIS COURSE IS SHAMEEL



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SUBJECTS IN THIS COURSE

- 1. INTRODUCTION
- 2. HOW TO INSTALL PYTHON
- 3. HOW TO PRINT HELLO WORLD IN PYTHON
- 4. BASIC OF PYTHON
 - VARIABLES
 - DATA TYPE
 - STRING
 - ARRAY
 - GET USER INPUT
 - IF ELSE ELIF
 - NESTED IF
 - LOOP
 - DICTIONARY
 - FUNCTIONS
 - A SAMPLE CALCULATOR

WHAT IS PYTHON

- Python is high level, interpreted, powerful programing language
- > It created by Guido van Rossum in 1991

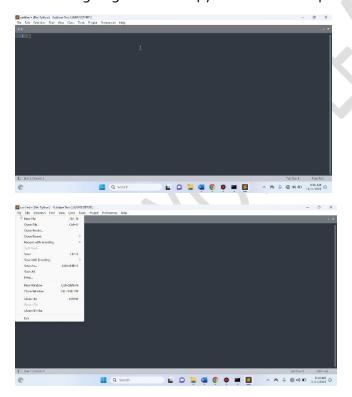
HOW TO INSTALL PYTHON

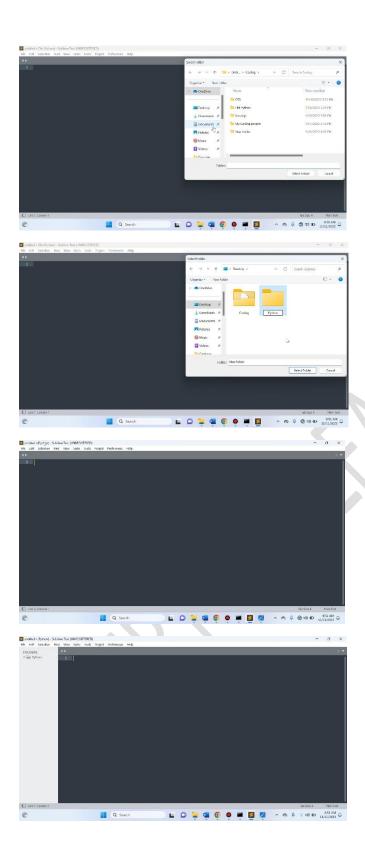
- To install first of all visit this site(https://www.python.org) and go to download and download the setup for your os such as windows, mac , linux
- > Then run the setup before press install button your can see in below "ADD PYTHON TO PATH" so click that button
- > Then we are going to use a code editor for code in python so you can use some code editor
 - Python idle
 - Py charm
 - Visual studio code
 - Pulsar
 - Sublime text editor
 - Notepad / Notepad ++

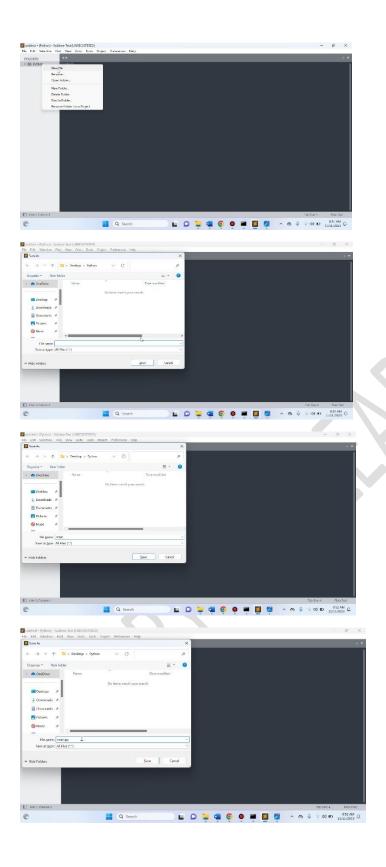
Noted("I am using sublime text editor for it")

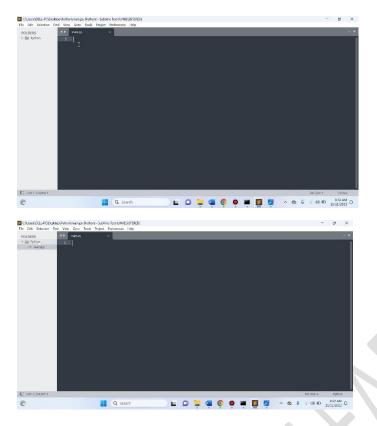
If you want to install sublime text editor go to this site(https://www.sublimetext.com)

So we are going to create a python file do this process



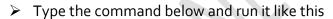


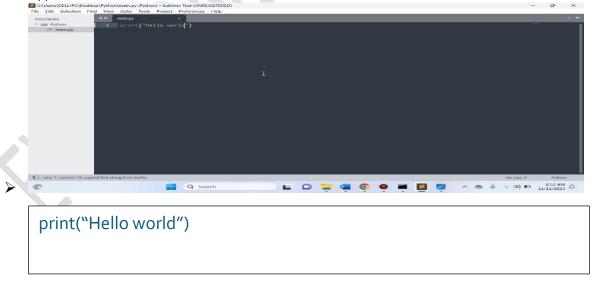




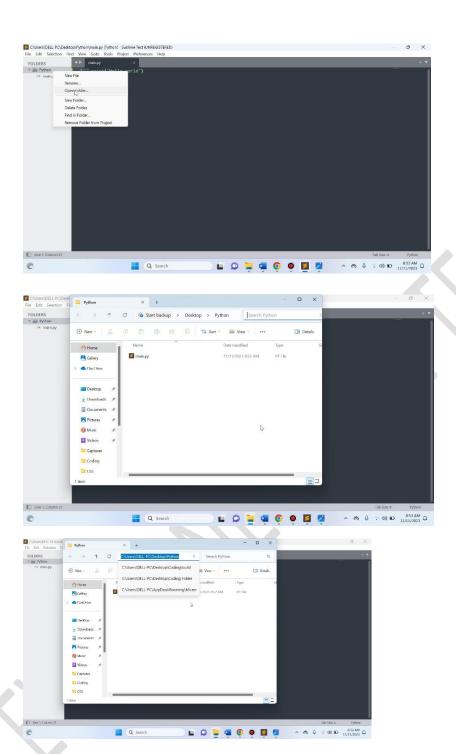
HOW TO PRINT HELLO WORLD IN PYTHON

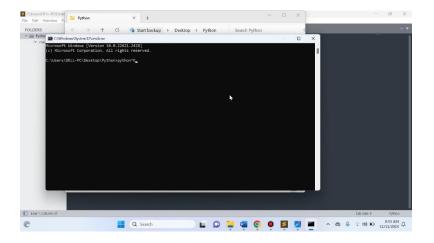
> To print hello world You can type like this (print("Hello world") here and example of this

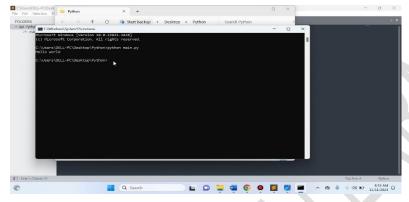




> Then open your cmd and follow this steps

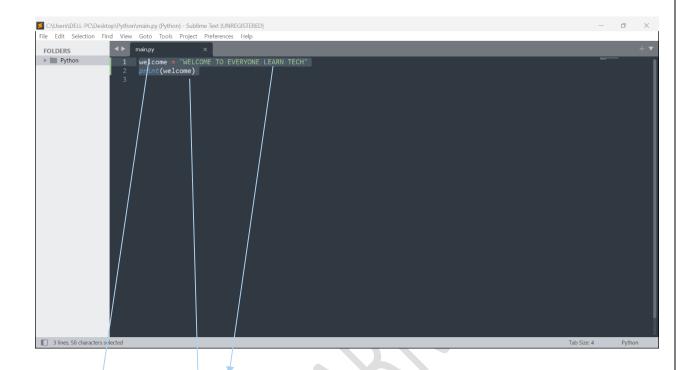






VARIABLES

- > It is the one of the easiest topic in python
- What is variable it simple you can imagine we are calling a person in his name like that we are printing a value with a variable name
- ➤ How to create a variable follow this step
- > So I am going to print "WELCOME TO EVERYONE LEARN TECH" using a variable
- ➤ The variable name of this value is "Welcome"
- ➤ And the value is "WELCOME TO EVERYONE LEARN TECH"
- > So lets do it



This is the variable name

This is the value

So we are printing this with the variable name

Data type

Data type is such a easy topic in python so lets learn that

So what are the data types in python:

- String
- Integer
- Boolean
- Float

String:- You can use the ("",") for print a string value data

Integer:-You can print the number like this (3,4)

Boolean:-You can use (true or false for it) Flot :- It is (3.23) very simple like this

You can see the type of the Data type use this type lets see

```
string = "Welcome"
integer = 12
boolean = True
floatdatatype = 3.35
print(string)
print(integer)
print(boolean)
print(floatdatatype)
print(type(string))
print(type(integer))
print(type(boolean))
print(type(floatdatatype))
```

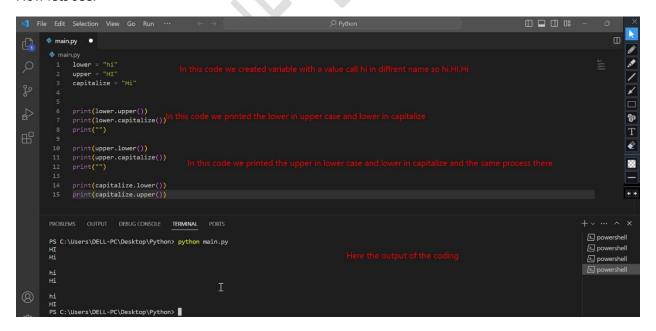
<u>String</u>

String is the easiest topic in our python you can imagine that string is a sentence

You can print it in python

We can also convert a lowercase value to upper case and uppercase value to capitalize

Now lets see:



But you cannot print a paragraph using the "" or " this ones you can only use """"" this one for your coding

Your task is print this symbol

| |------

```
print("""
Welcome to my coding
This is my coding

""")

paragraph = """
Coding is very easy
"""
print(paragraph)
```

✓ Now how to print a variable with a sentence like this print("Welcome", user)

```
user = "shameel"
print("Welcome",user)
print("Welcome "+user)
print(f'welcome {user}')
print(f"welcome {user}")
```

o The output is:

Welcome shameel welcome shameel welcome shameel

<u>Arrays</u>

Arrays we can divide it in 3 types

- List[]
- o Tuple()
- o Set {}

Now we are going to see the list

```
users= ['shameel','x','y','z']
print(users)
```

You can create a list like this The output of list is:

```
['shameel','x','y','z']
```

So If you want to create a list [] use the square brackets

Now how to print the value call shameel in array

Note:-The array contains value o-some thing so you should call the o if you want get the first value of the array

Code:-

```
users= ['shameel','x','y','z']
print(users[0])
```

Output:-

shameel

If you want to call the second value x you type like this print(users[1])

Now How to append a data in List You can type like this the command

```
users= ['shameel','x','y','z']
users.append("Coding")
print(users)
```

Use this command

Output:-

```
['shameel', 'x', 'y', 'z', 'Coding']
```

But If your going to update first value to I mean shameel to Programmer You can use this command

```
users= ['shameel','x','y','z']
users[0] = "Programmer"
print(users)
```

The output is:

```
users= ['Programmer', 'x', 'y', 'z']
```

Now we are going to see tuple ()

✓ You cannot append some thing in tuple it is fixed
So lets do some programme

The code is here and output:

```
users= ('shameel','x','y','z')
print(users)
```

```
('shameel'.'x'.'v'.'z')
```

But if you append some thing it will show ad error

This is the error if you append

```
Traceback (most recent call last):

File "C:\Users\DELL-PC\Desktop\Python\main.py",
line 2, in <module>

users.append("Coding")

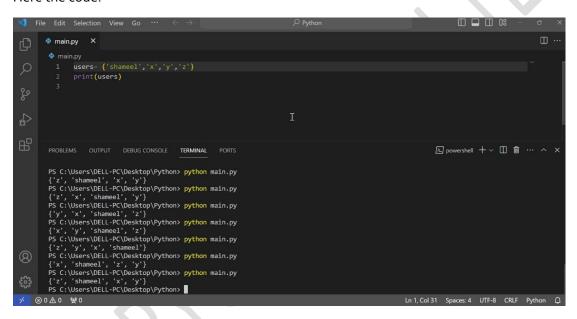
^^^^^^^^
```

AttributeError: 'tuple' object has no attribute 'append'

Now we are going to set $\{\}$

- ✓ It is a updated version of tuple and the tuple and updated version of list
- ✓ So the noted point we are using curly brackets for it {} So it is same like tuple but if run the code the output should be different it means it won't come in the order

Here the code:

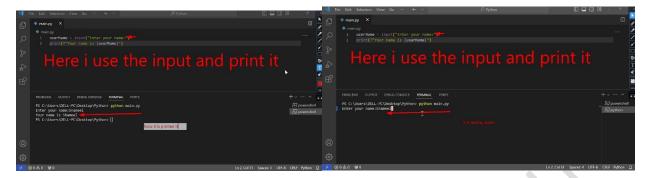


So you can see when I run the code many time the value is changing here

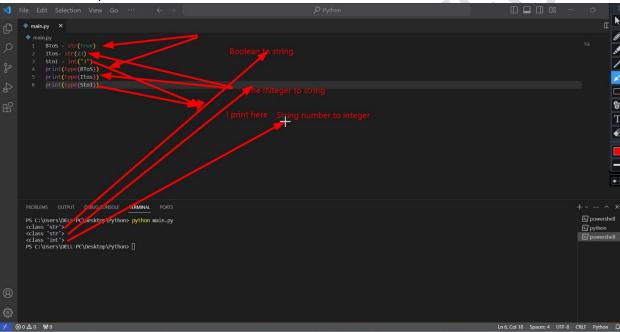
But you cannot use the append also here it should throw and error to it

GET USER INPUT

If you want t get a user input using python you can use this input ("Enter the number:") Lets do



In this input concept you can convert a integer to string and convert Boolean or anything to string just to string and if you enter a number as a string you can also convert it as a integer but not the letters here some example



IF ELSE ELIF AND NESTED IF

So we are going to learn if else elif now we are going to do a project

• In this project we store a variable and if the variable data is bigger than 10 we print it is bigger or same print same else it is small Lets do But here I didn't use the input

```
number = 10
if number > 10:
    print(f"Your number {number} is bigger than 10 ")

elif number == 10:
    print(f"Your number {number} is equal to 10 ")
```

```
else:

print(f"Your number {number} is smaller than 10 ")
```

The outputs are here:

```
The first first selection Verw Search first by name (appoind to go to line or of to go to symbol)

If the first selection Verw Search first by name (appoind to go to line or of to go to symbol)

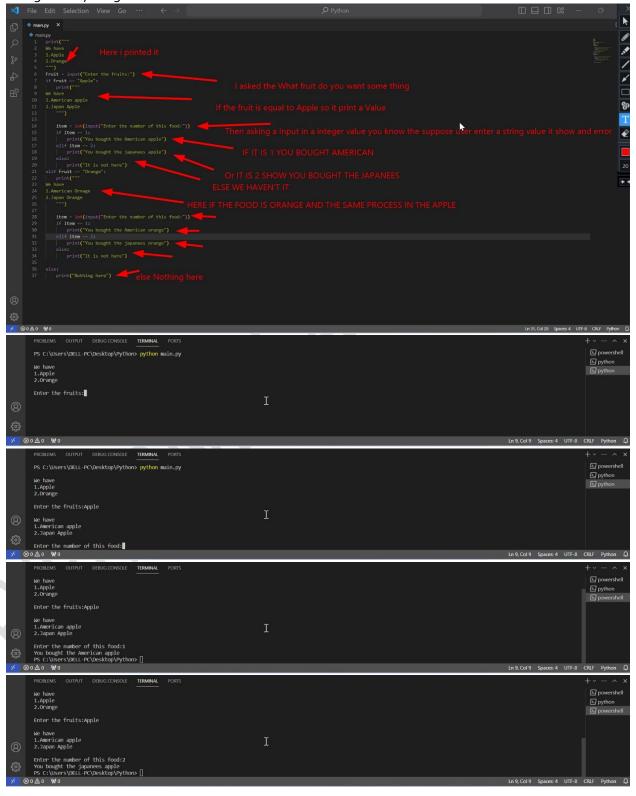
If the first selection Verw Search first selection is a maintage (another) as a maintage or of the first selection of the first selection is a maintage or of the first selection of the first sele
```

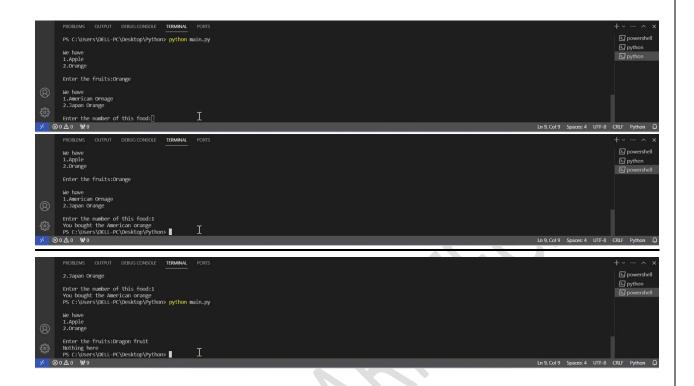




So Practice This loop Now we are going to see the Nested if

• The project is we are asking I want apple which apple American or orange which orange Japan orange or anything else





So here I checked if the item value is equal to integer 1 so it continue or user enter a string some like "idsi" it throw an error so this is the main code here

LOOPS (FOR LOOP WHILE LOOP)

It is a important topic in python so lets learn

We can simple use a for loop in this method

It just for basic in intermediate book we will see the loops and array very advance

So here some code for it

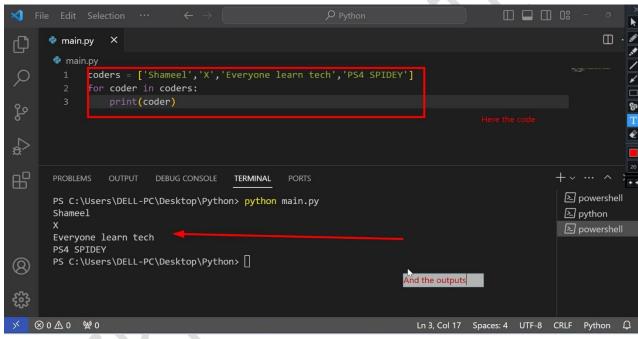
In this code it printed o-9

```
for i in range(10):
    print(i)
```

the Output is:

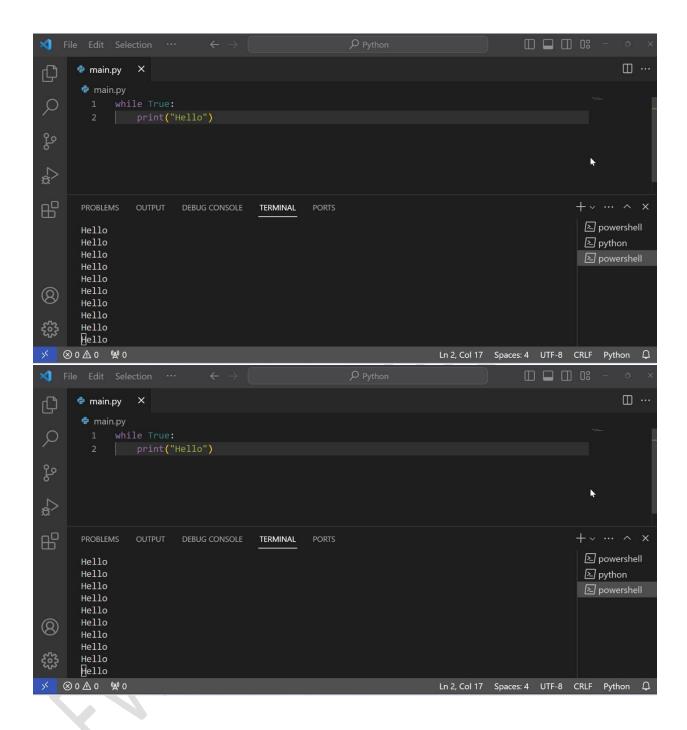
```
0
1
2
3
4
5
6
7
8
9
```

Ok now I have a array in the code so I want to print the value line by line you can use it loop for it so lets see

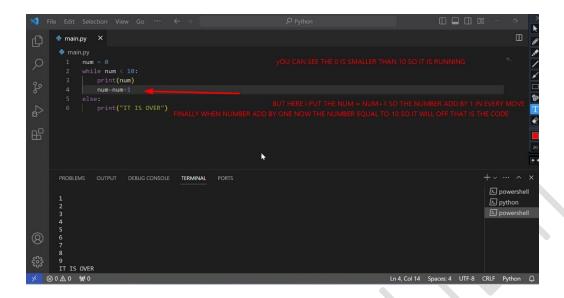


Now while loop:

You can enter condtion like if elif in while loop and you can use the True for it so it will continue it is a interesting topic LETS SEE:



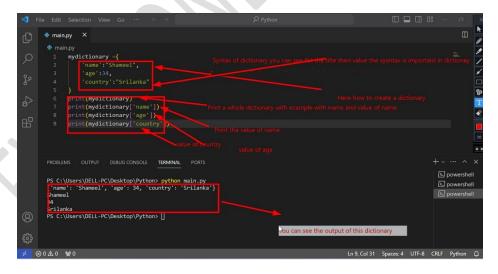
The code is running now the coding is I have a value if the value smaller than 10 the code should be run else it stop lets do



DICTIONARY

Now we are going to learn about dictionary is a interesting topic in python ok what is dictionary most of us thing dictionary has meaning for many words but here it same but some different ok lets learn we are going to do a application with the help of dictionary the app is user enter a input so if the word in the dictionary we print ok first lets learn dictionary

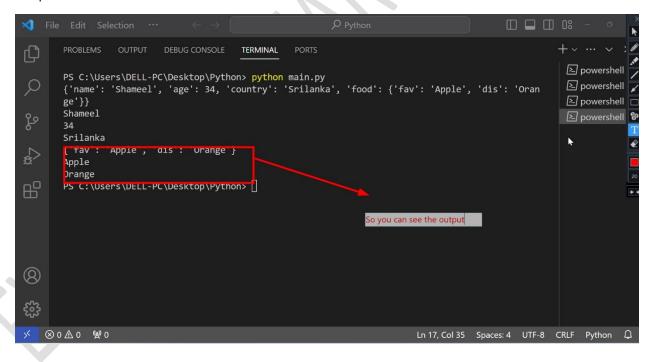
Now lets code:



Also you can enter multiple value so this project is I have a user and so we have a dictionary about him and we are calling him Now a example the dictionary contain name, age, city, phonenumber, food and the food contain favorite and dislike food Lets code:

```
🕏 main.py 🛛 🗙
                                                                                                                   Q
             mydictionary ={
                  'country':"Srilanka"
                 'food':{
                       dis":"Orange"
              print(mydictionary)
              print(mydictionary['name'])
              print(mydictionary['age'])
              print(mydictionary['country'])
               rint(mydictionary['food'])
rint(mydictionary['food']['fav'])
(8)
               rint(mydictionary['food']['dis'])
                                                                                                ow see how we printted it
× ⊗o∆o w/o
                                                                           Ln 17, Col 35 Spaces: 4 UTF-8 CRLF Python Q
```

Output:



Now we are going to do our final project:

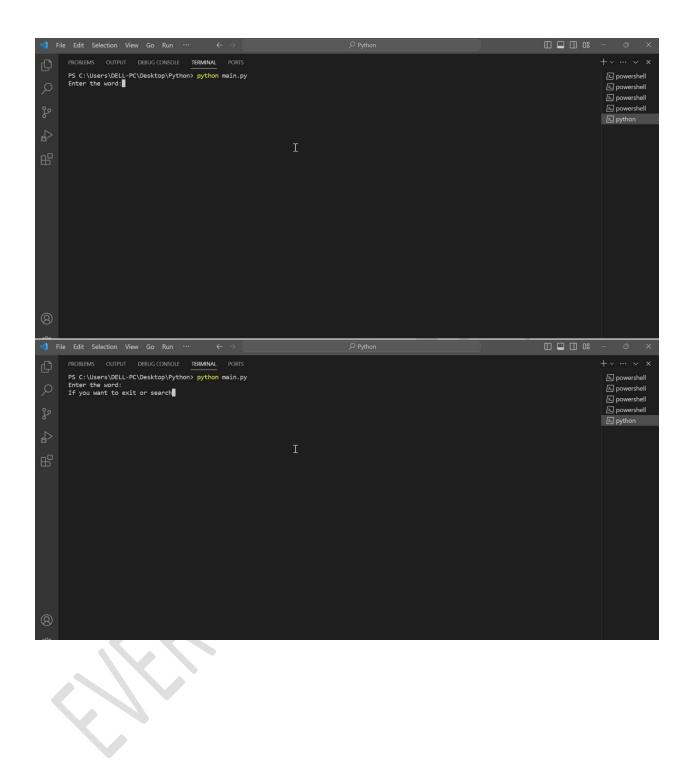
Coding:

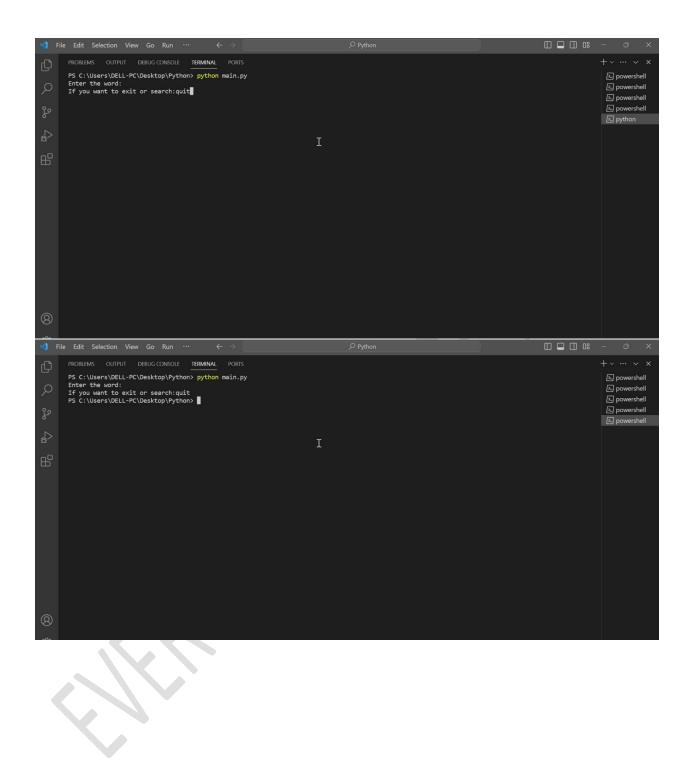
```
## File Edit Selection View Go Run ***  

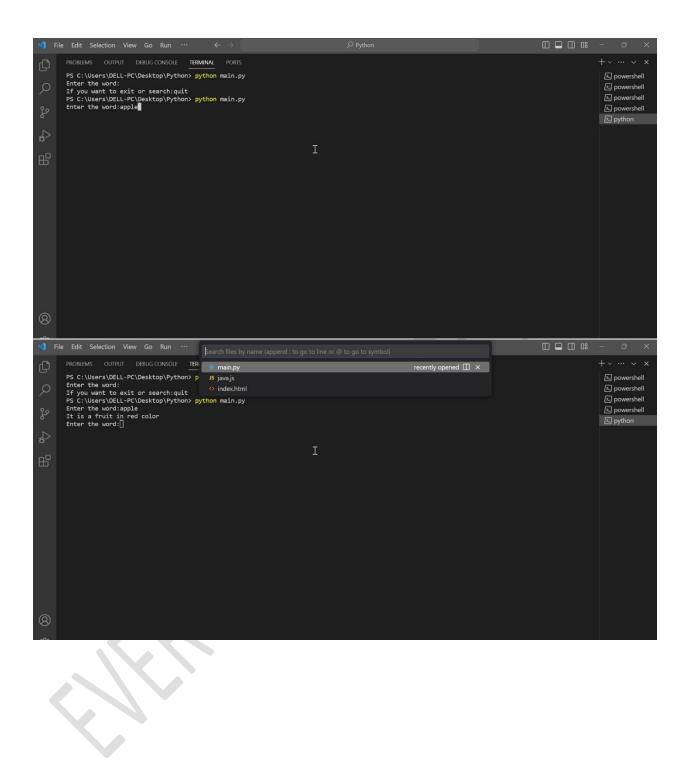
# main.py  

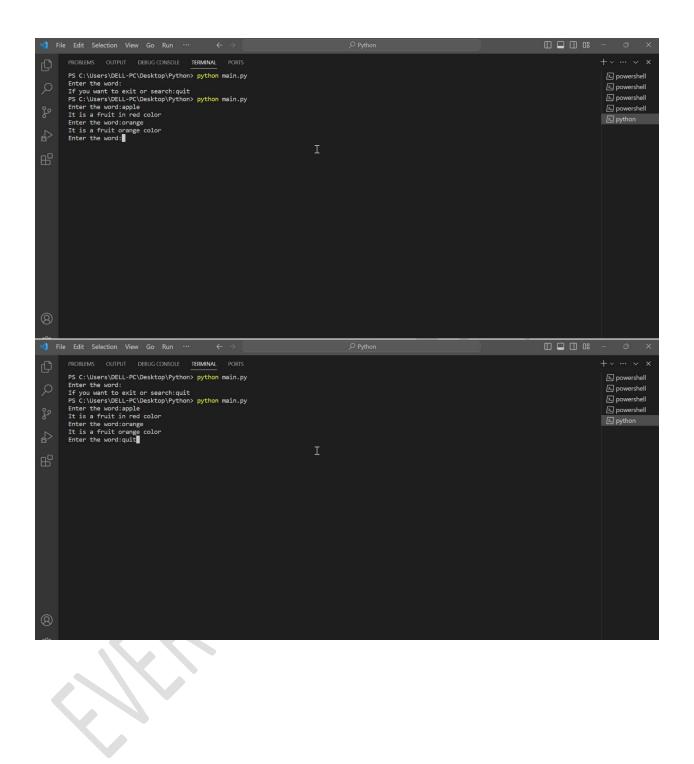
#
```

Output:



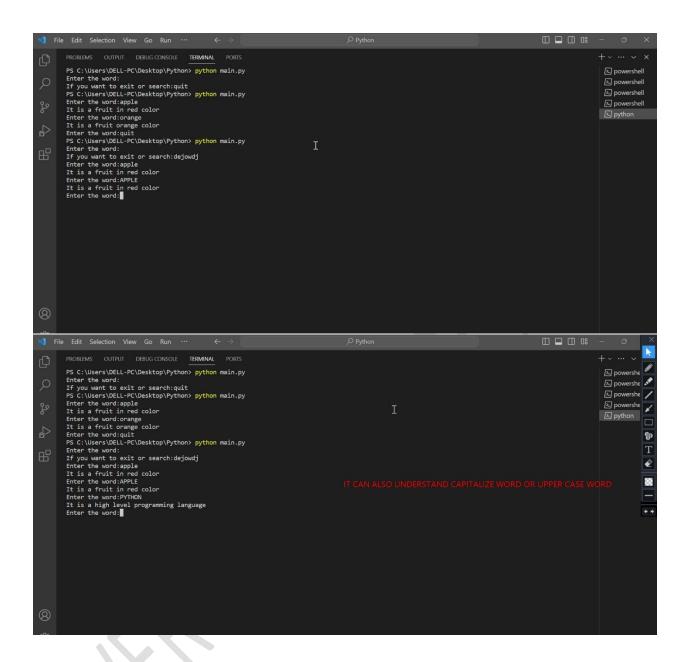










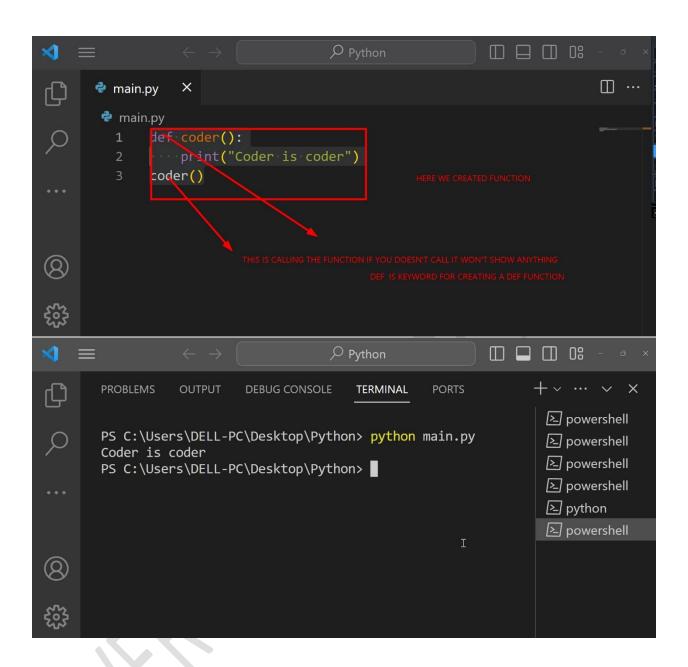


Now we are going to learn Functions

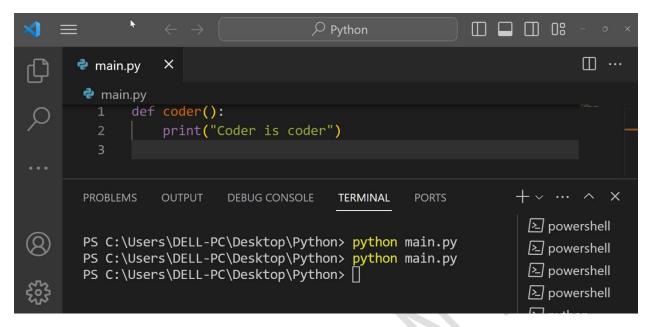
- Def function
- 2.Lambda function

In this beginner course we are going to learn Def function

Here an example:

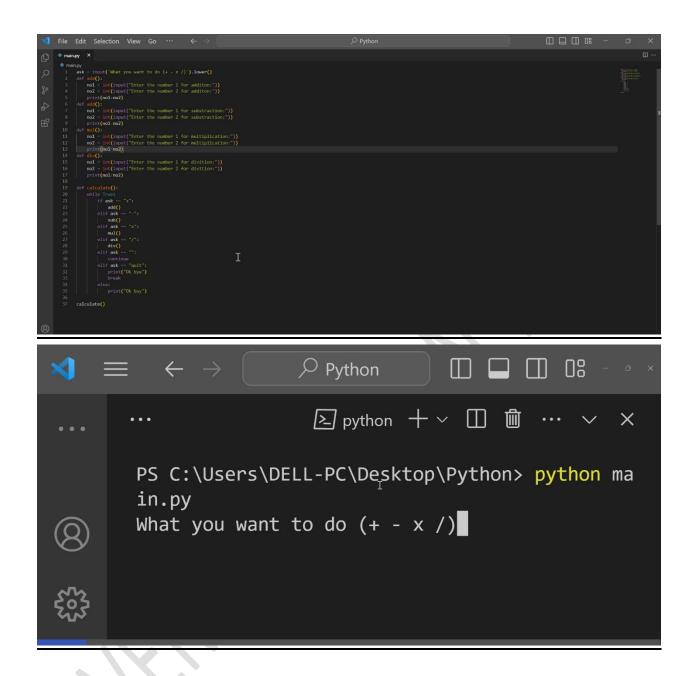


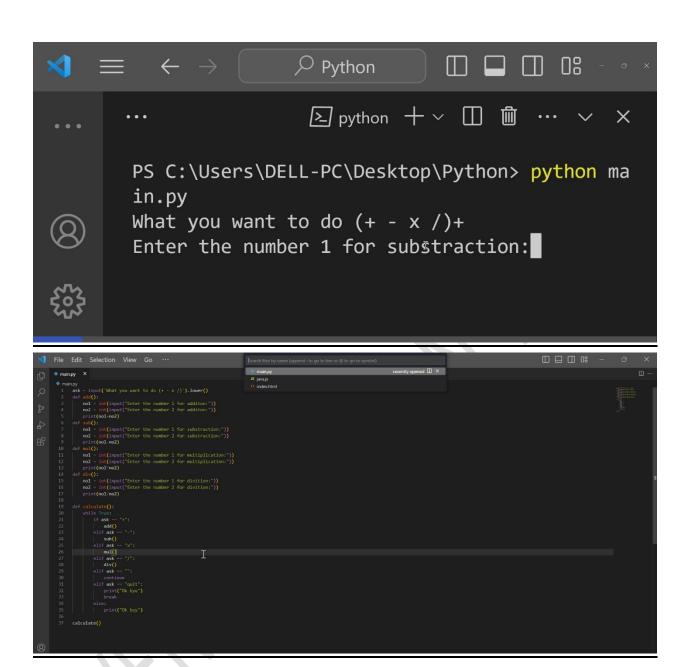
Now what happen if didn't call the function

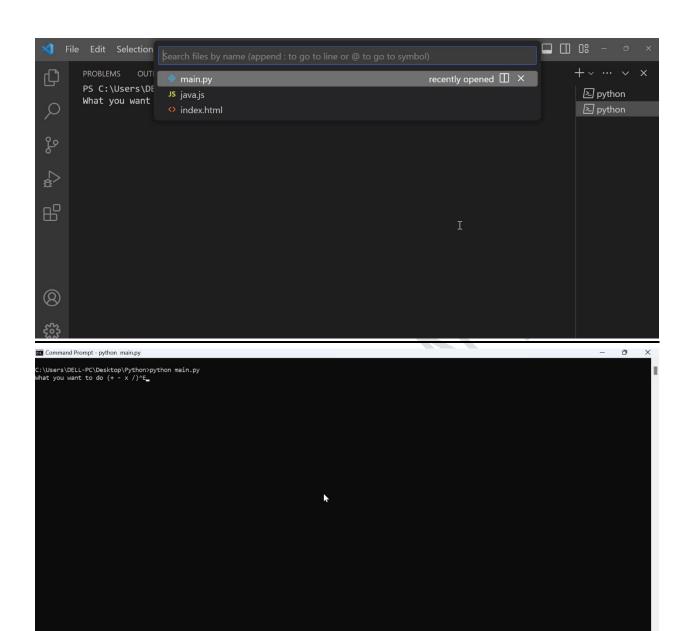


We will learn the intermediate concept in intermediate book

NOW WE ARE GOING TO DO A SIMPLE CALCUALTOR

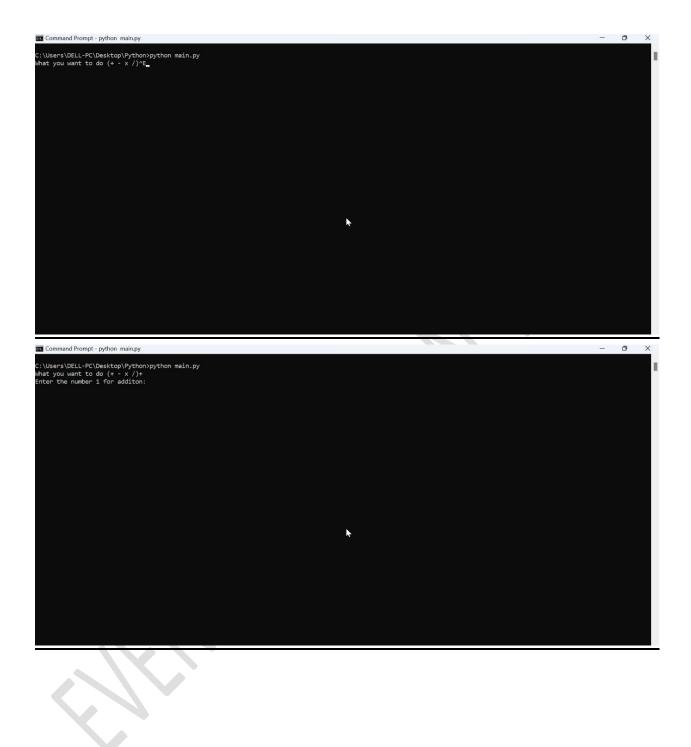






















Thanks for learning this book guys we will continue the part I mean intermediate in few days bye...