



# Python Programming

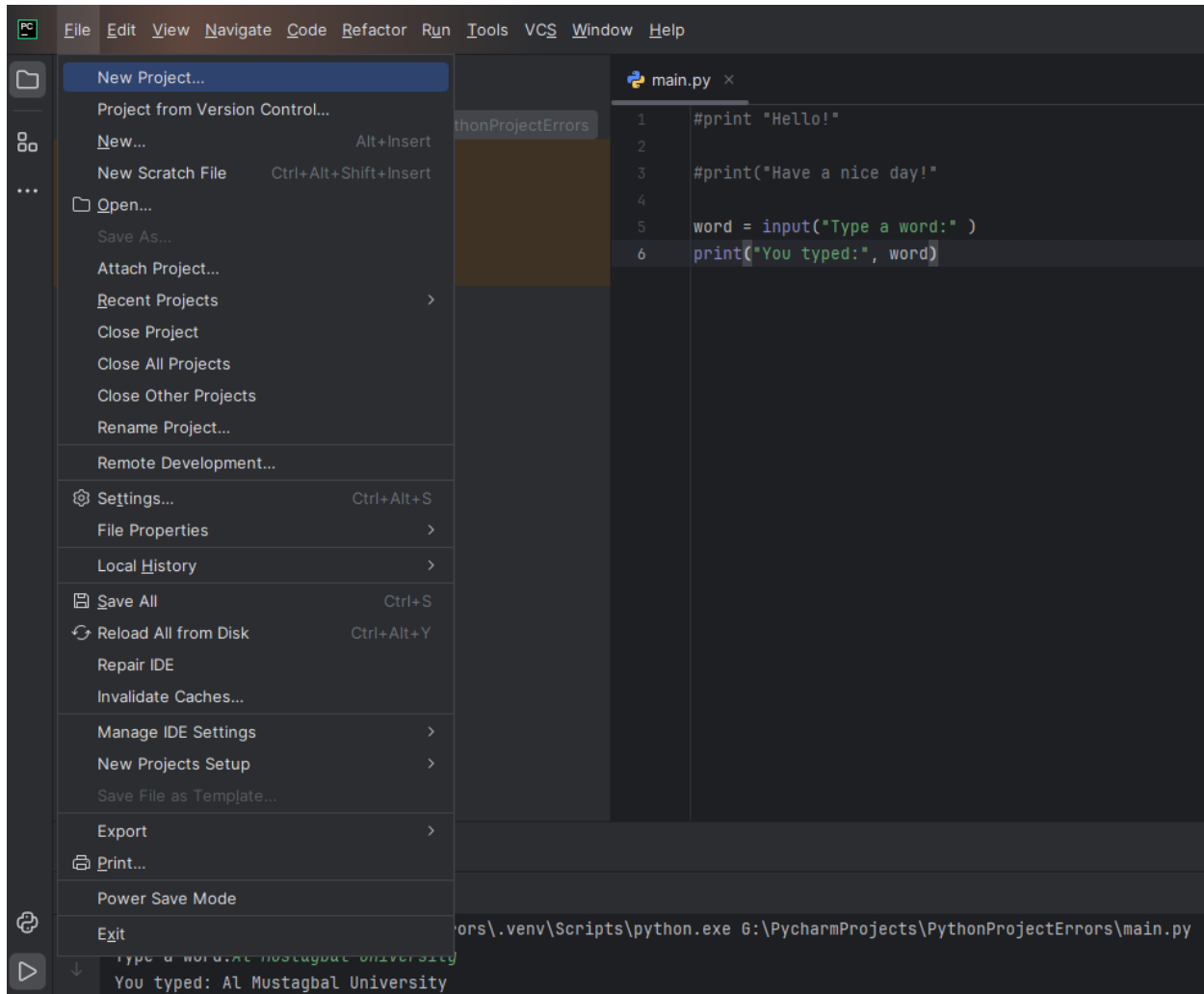
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## Week 1: Introduction to Python, Variables, Data Types, and Basic Operators

### Basic input

#### 1. From File select New Project



```
File Edit View Navigate Code Refactor Run Tools VCS Window Help
New Project...
Project from Version Control...
New... Alt+Insert
New Scratch File Ctrl+Alt+Shift+Insert
Open...
Save As...
Attach Project...
Recent Projects >
Close Project
Close All Projects
Close Other Projects
Rename Project...
Remote Development...
Settings... Ctrl+Alt+S
File Properties >
Local History >
Save All Ctrl+S
Reload All from Disk Ctrl+Alt+Y
Repair IDE
Invalidate Caches...
Manage IDE Settings >
New Projects Setup >
Save File as Template...
Export >
Print...
Power Save Mode
Exit
PythonProjectErrors
main.py x
1 #print "Hello!"
2
3 #print("Have a nice day!")
4
5 word = input("Type a word:" )
6 print("You typed:", word)
ors\.venv\Scripts\python.exe 6:\PycharmProjects\PythonProjectErrors\main.py
type a word: Al Mustaqbal University
You typed: Al Mustaqbal University
```

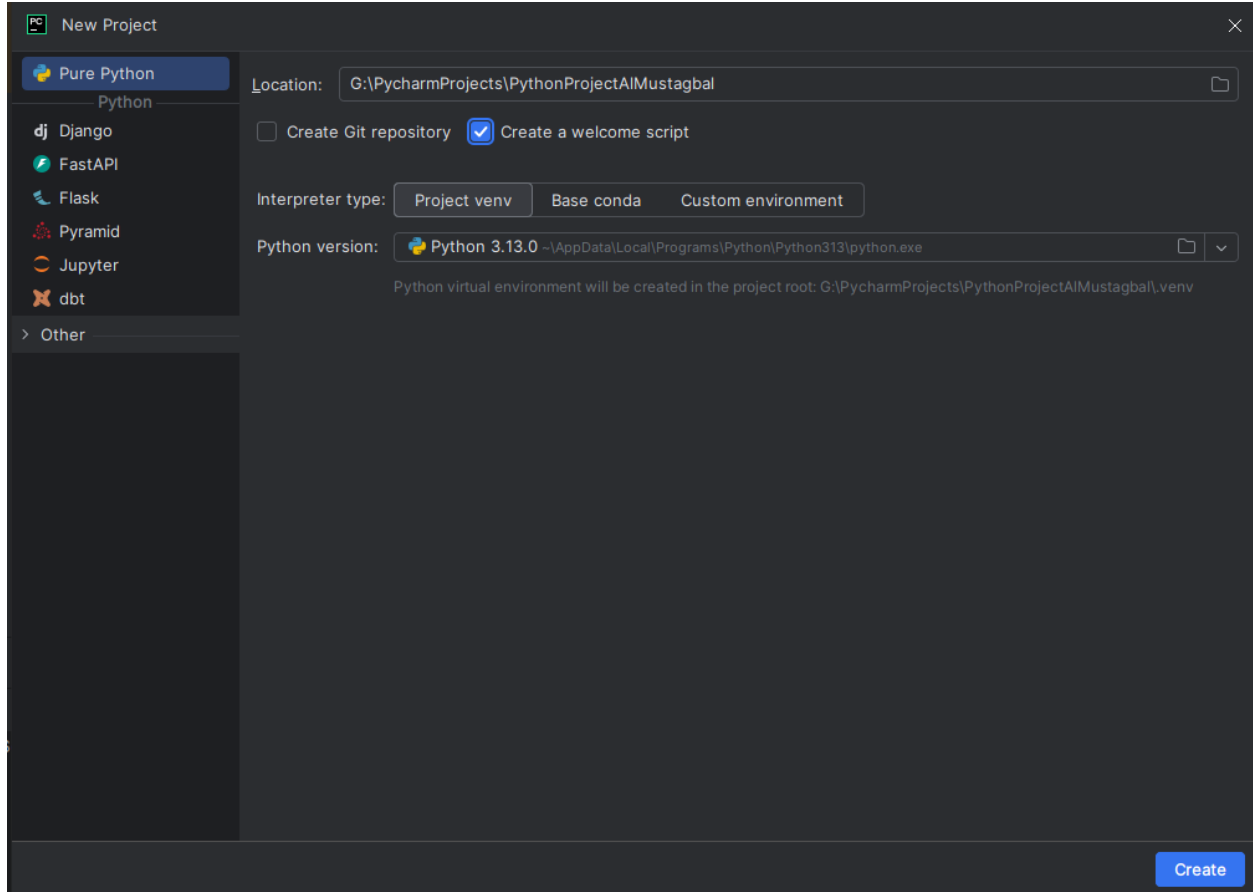


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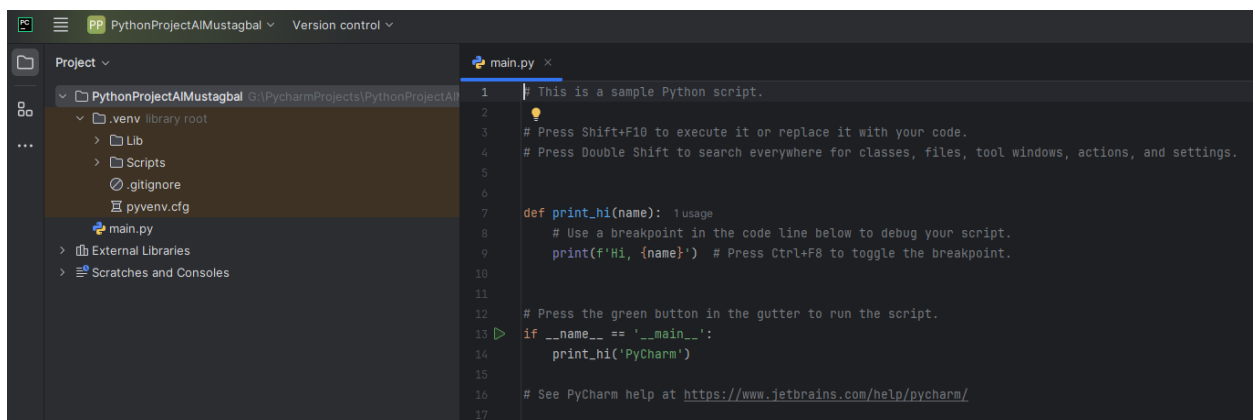
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2. On location type the project name: PythonProjectAlMustagbal or any project name



3. From above click Create then start write the Python code





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## Week 1

```
# This is a sample Python script.

print("Today is Monday.")
print("I like string beans.")

print("Today", "is", "Monday")
print("Today", "is", "Monday", sep="...")

print("Today is Monday, ", end="")
print("I like string beans.")

print("Today", "is", "Monday", sep="? ", end="!!")
print("I like string beans.")

variable = input("prompt")

print("Please enter a number: ")
number = input()
print("Value =", number)

city = "Baghdad"
print("The city where you live is", city)

# Assigning values to variables
a = 10 # Integer variable
b = 20 # Integer variable

# Performing arithmetic operations
print("Sum:", a + b) # Adds a and b
print("Difference:", a - b) # Subtracts b from a
print("Division:", b / a) # Adds a and b
print("Sum:", b // a) # Adds a and b
print("Remainder:", b % a) # Remainder a % b
print("Raises a number:", 4 ** 2) #

x = 5
y = 10
print(x > y) # Checks if x is greater than y
print(x <= y) # Checks if x is less than or equal to y

is_sunny = True
is_warm = False
print(is_sunny and is_warm) # Checks if both conditions are True
print(is_sunny or is_warm) # Checks if at least one condition is True
```



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Today is Monday.

I like string beans.

Today is Monday

Today...is...Monday

Today is Monday, I like string beans.

Today? is? Monday!! I like string beans.

prompt

Please enter a number:

1

Value = 1

The city where you live is Baghdad

Sum: 30

Difference: -10

Division: 2.0

Sum: 2

Remainder: 0

Raises a number: 16

False

True

False

True

Process finished with exit code 0