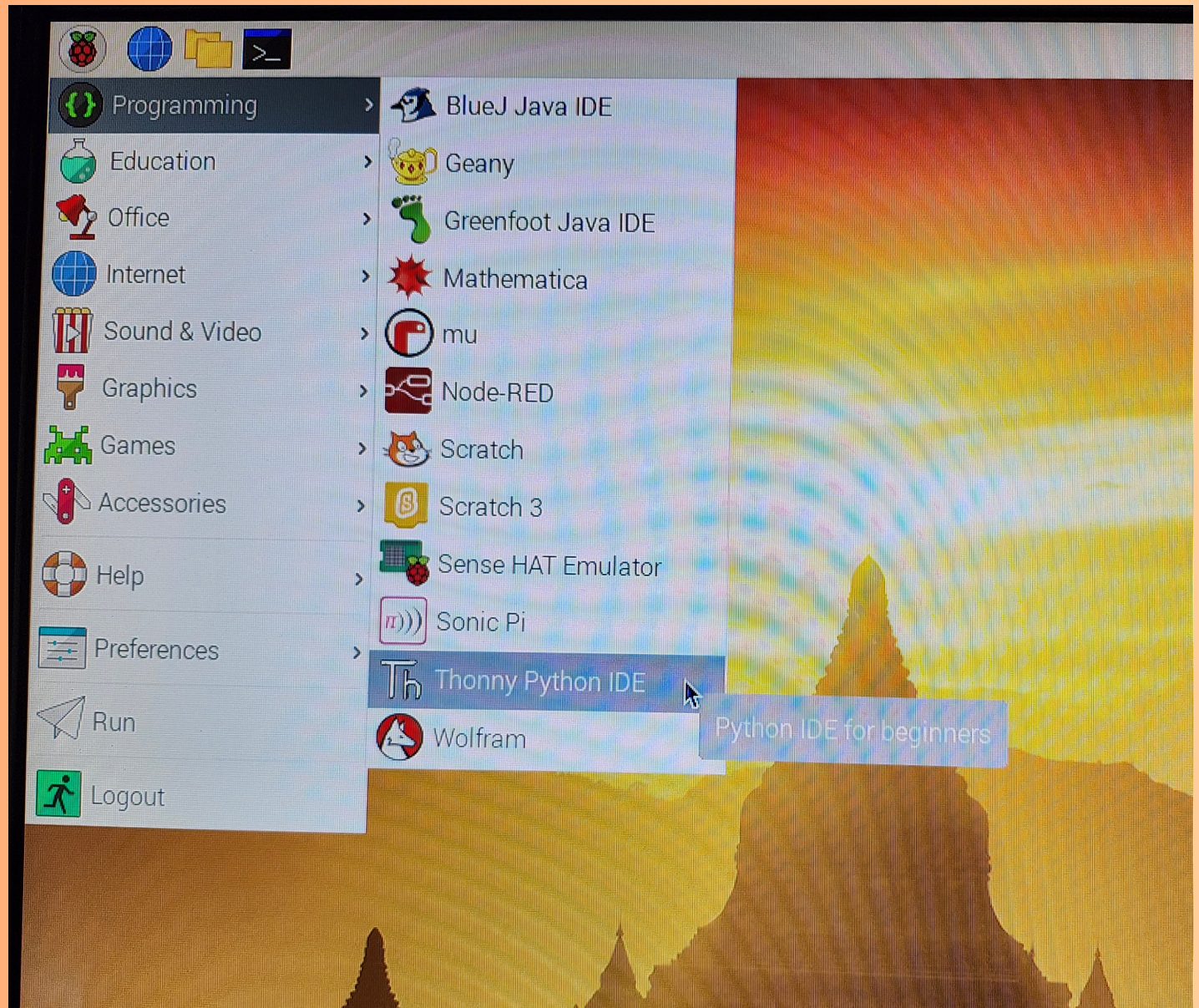


Python



Hello userName

Thony IDE



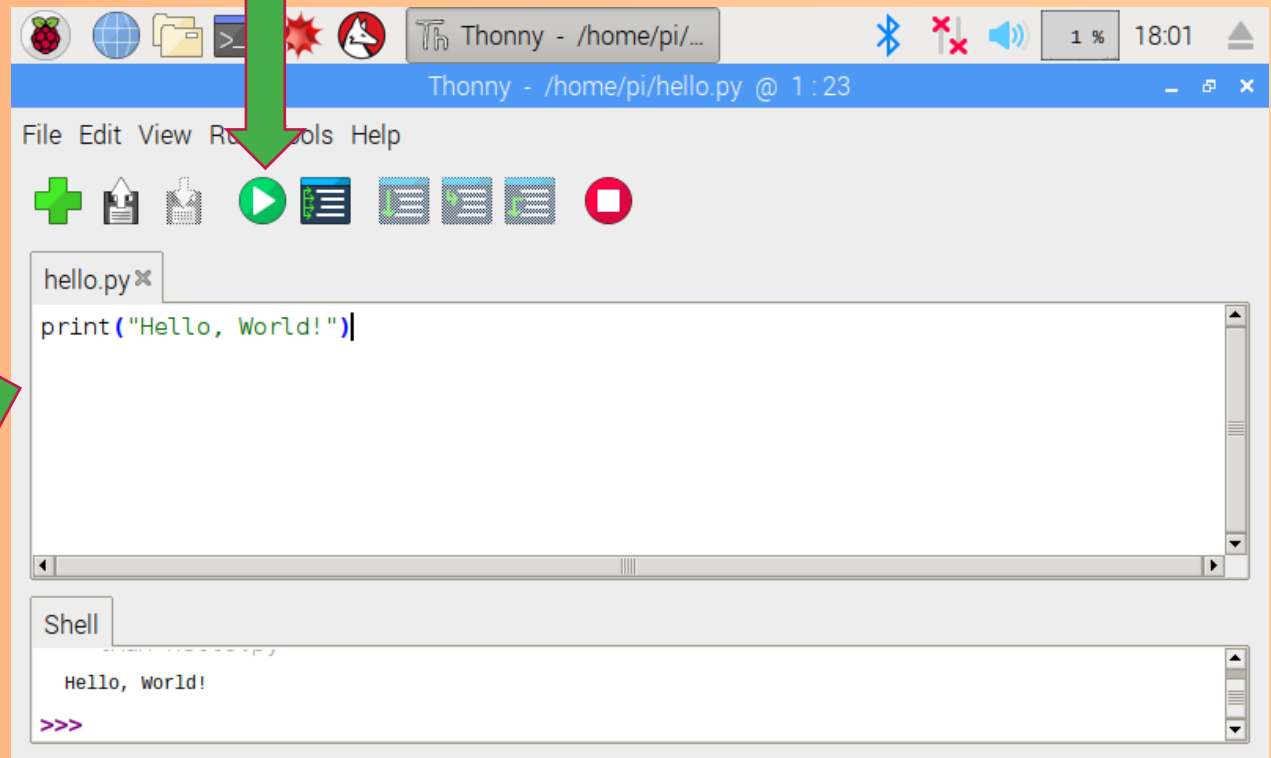
Thony IDE

Run

Type Program

Click Run Button

Program

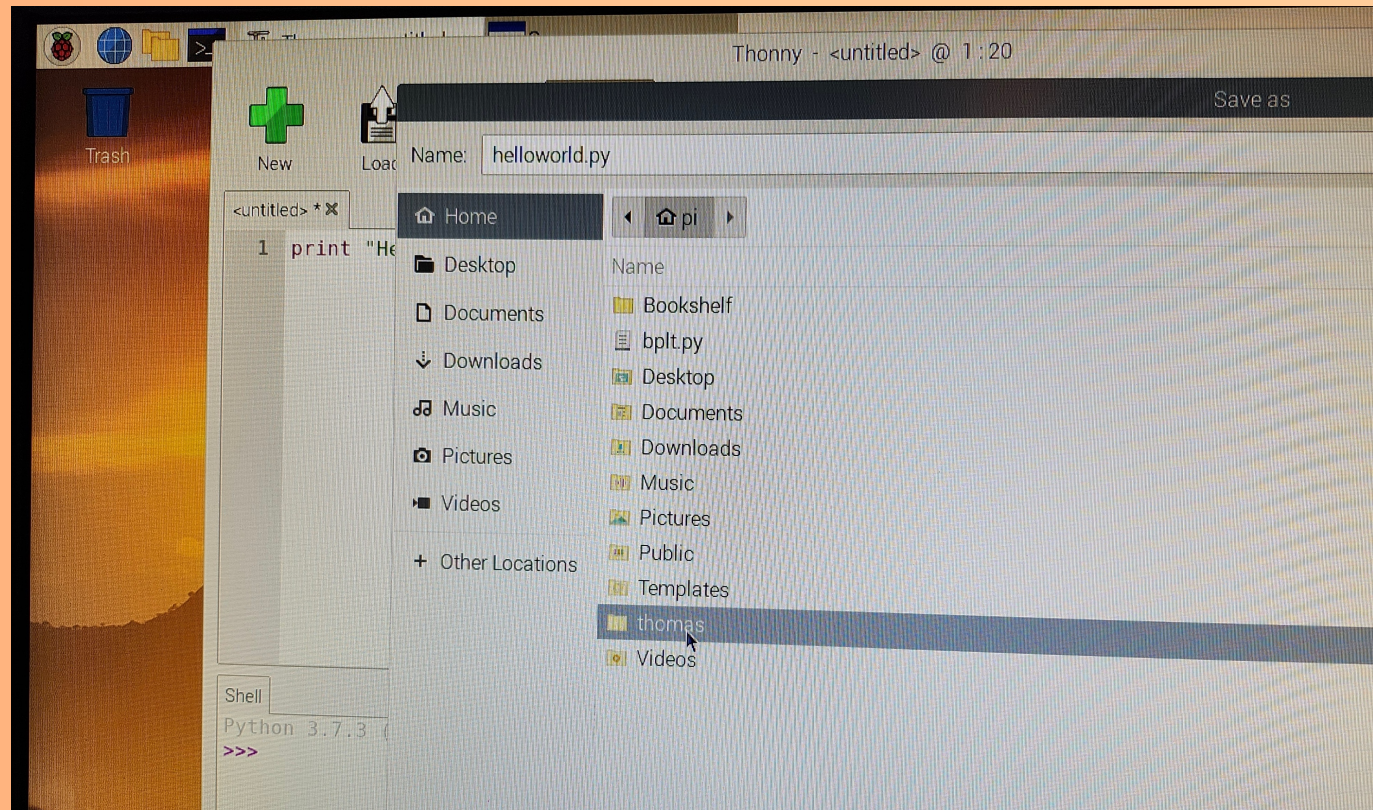


Thony IDE

Name File

Select Folder

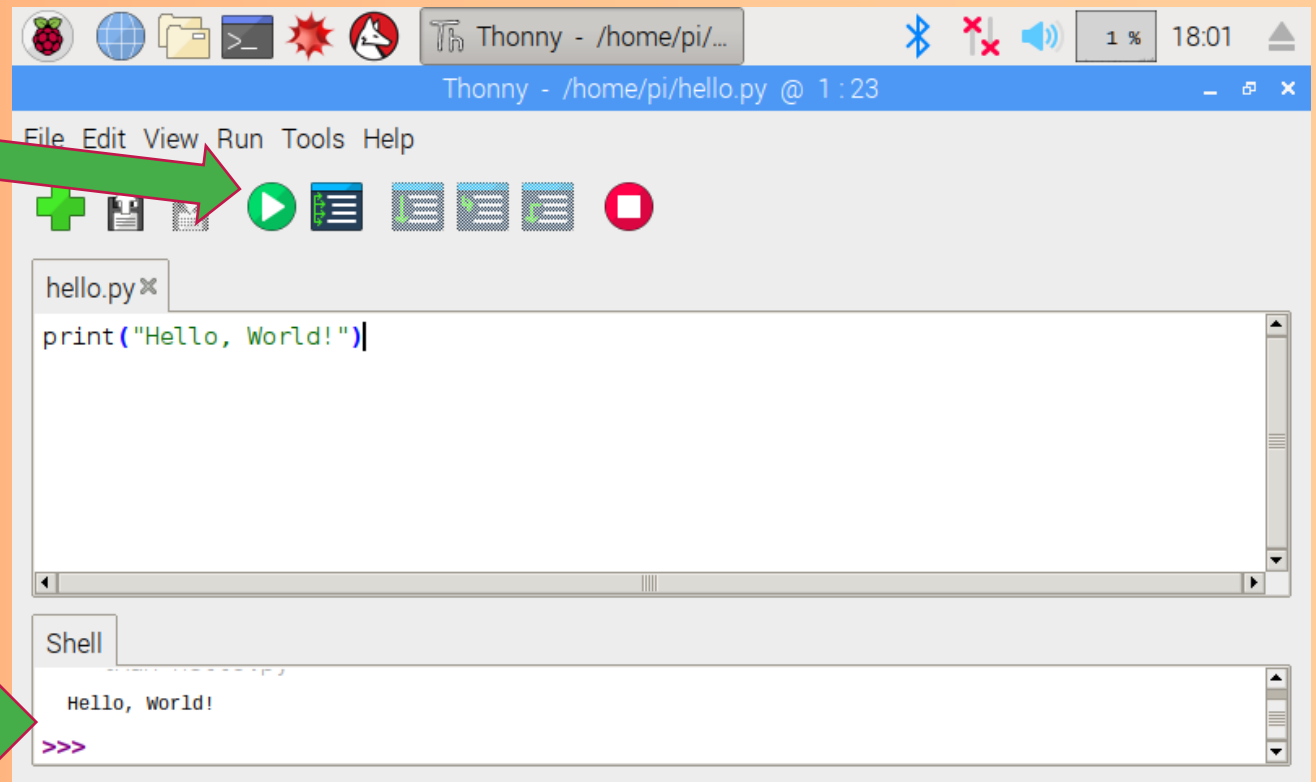
Click OK button



Thony IDE

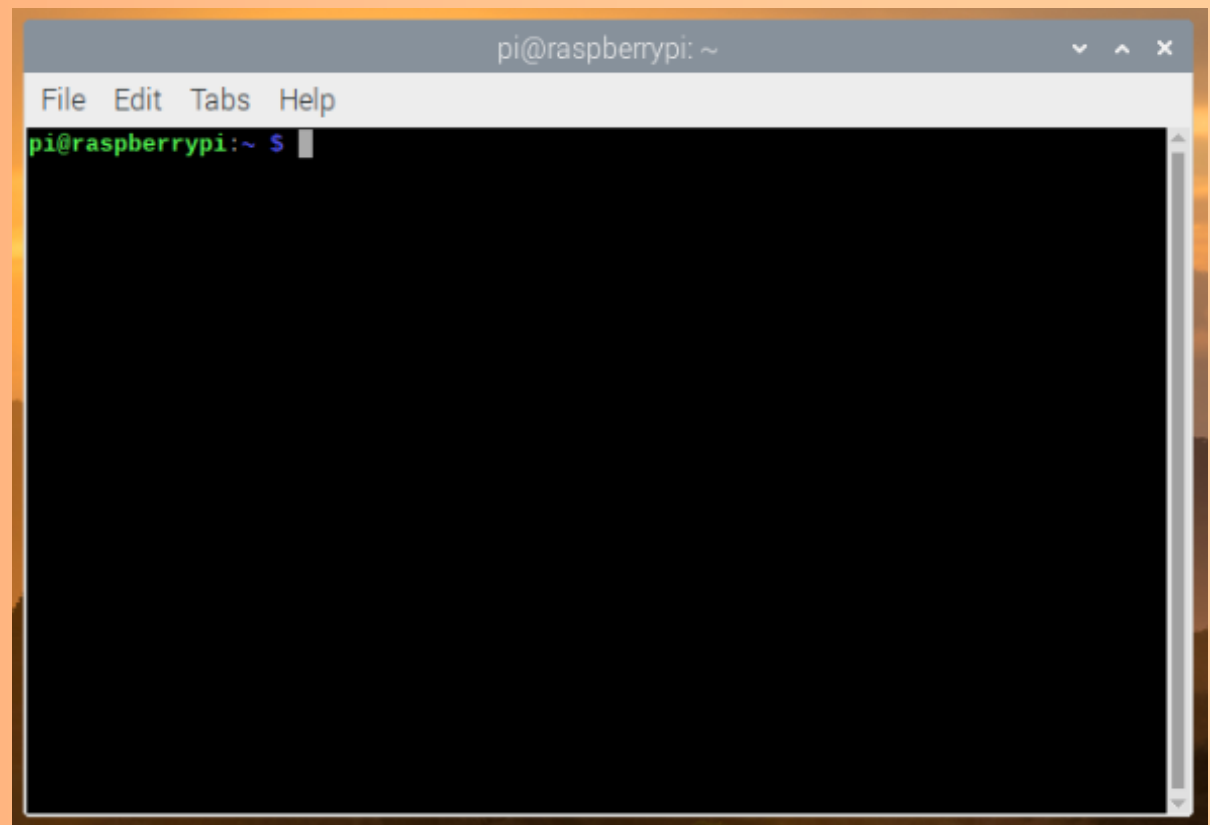
Run
Program

Program
output



Python via Terminal

```
python ./helloworld.py
```



**Awesomly
Excellent!**



Hello userName

.Ask the user for their name. Print *Hello name*

Hello userName

.Ask the user for their name. Print *Hello name*

User Interface

Algorithm (Program Thinking)

Syntax (Write Program)

Hello userName

.Ask the user for their name. Print *Hello name*

User Interface

Please enter your name:

Hello Thomas

Algorithm (Program Thinking)

Syntax (Write Program)

Hello userName

.Ask the user for their name. Print *Hello name*

User Interface

Please enter your name:

Hello Thomas

Algorithm (Program Thinking)

input user's name

set userName to input data

print Hello followed by userName

Syntax (Write Program)

Hello userName

.Ask the user for their name. Print *Hello name*

User Interface

Please enter your name:

Hello Thomas

Algorithm (Program Thinking)

input user's name

set userName to input data

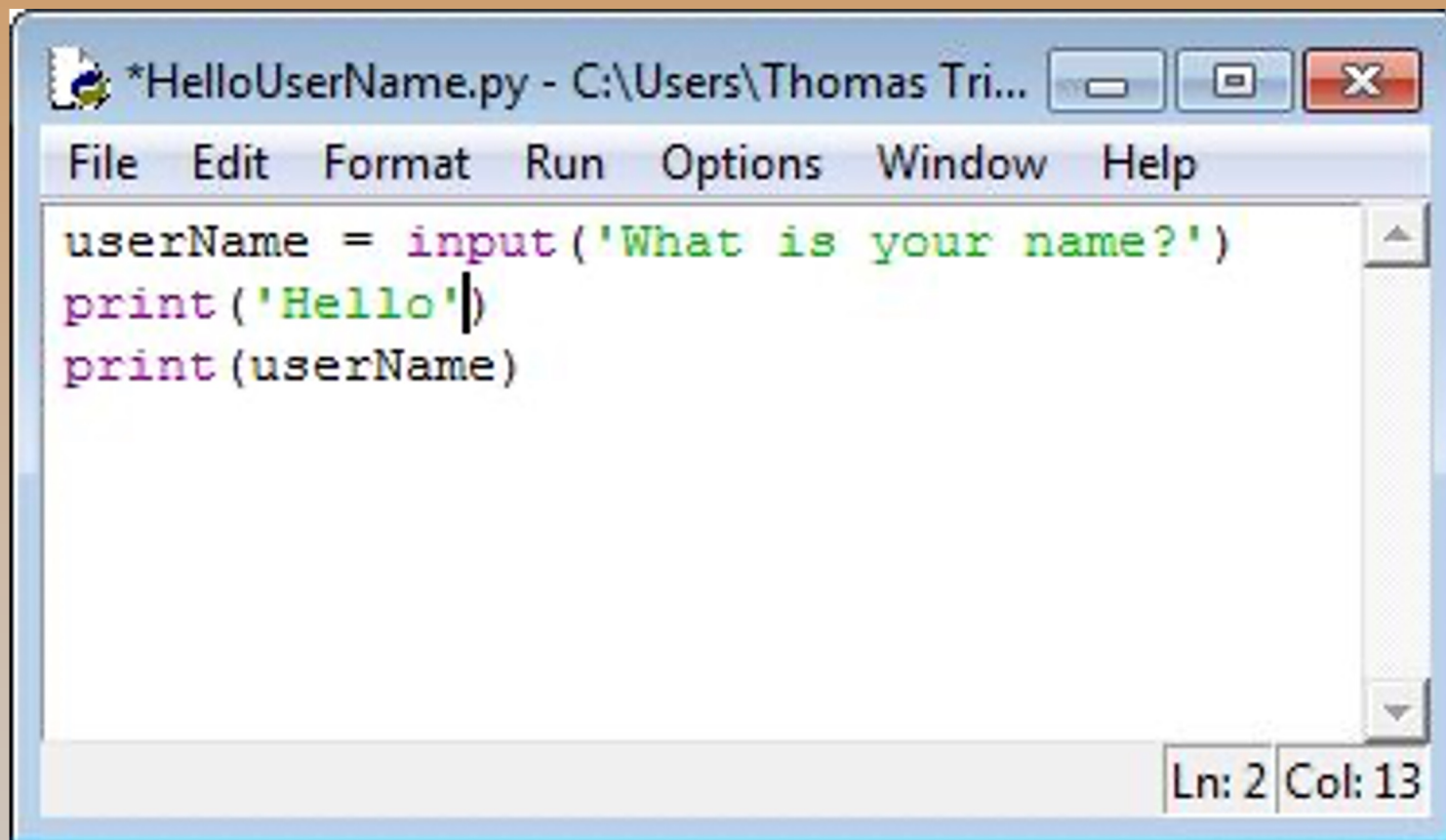
print Hello followed by userName

Syntax (Write Program)

```
userName = input('What is your name?')
```

```
print('Hello')
```

```
print(userName)
```



The image shows a screenshot of a Python IDE window. The title bar reads '*HelloUserName.py - C:\Users\Thomas Tri...'. The menu bar includes 'File', 'Edit', 'Format', 'Run', 'Options', 'Window', and 'Help'. The main text area contains the following Python code:

```
userName = input('What is your name?')
print('Hello')
print(userName)
```

The cursor is positioned at the end of the second line. The status bar at the bottom right indicates 'Ln: 2 Col: 13'.

What Happened

?

User Input

```
userName = input('What is your name?')
```

```
print('Hello')
```

```
print(userName)
```

User Input

```
userName = input('What is your name?')
```

```
print('Hello')
```

```
print(userName)
```

first print statement also printed
a Carriage Return and
a Line Feed




User Input

```
userName = input('What is your name?')
```

```
print('Hello', end="")
```

```
print(userName)
```

two single quote marks
with no separation

HelloUserName.py - C:\Users\Thomas Tric...   

File Edit Format Run Options Window Help

```
userName = input('What is your name?')  
print('Hello', end='|')  
print(userName)
```

Ln: 2 Col: 21

What Happened

?

User Input

```
userName = input('What is your name?')
```

```
print('Hello', end="")
```

```
print(userName)
```

No space between print statements

User Input

```
userName = input('What is your name? ')
```

```
print('Hello ', end="")
```

```
print(userName)
```

added spaces

What Happened

?

Concatenation

```
print('Hello ' + userName)
```

with strings
+ operator is called concatenate

HelloUserName.py - C:/Users/Thomas Trickel/Desk... [minimize] [maximize] [close]

File Edit Format Run Options Window Help

```
userName = input("What is your name? ")  
print("Hello " + userName)  
|
```

Ln: 3 Col: 0

User Input

```
userName = input('What is your name?')
```

create variable named **userName**
prompt user for input
assign input value to **userName**

Three Questions



Three Questions

•Ask the user the following three questions and print the questions and answers. One question and answer per line

1. What... is your name?

2. What... is your quest?

3. What... is your favorite color?

Three Questions

.Ask the user the following three questions and print the questions and answers. One question and answer per line

User Interface

Algorithm (Program Thinking)

Syntax (Write Program)

1. What... is your name?

2. What... is your question?

3. What... is your favorite color?

Three Question Program

```
#Python program to ask the Three questions
```

```
question1 = input("What is your name? ")  
question2 = input("What is your quest? ")  
question3 = input("What is your favorite color? ")
```

```
print("Your name is " + question1)  
print("Your quest is " + question2)  
print("Your favorite color is " + question3)
```

Review

- print statements

- automatic CR/LF

- end="" overrides auto CR/LF

- must even tell computer to use spaces

- concatenation

- + to combine string and variable in a print statement



Calculate Circumference of Circle

.Ask user to enter the radius of a circle and print out the circumference of the circle.

Calculate Circumference of Circle

.Ask user to enter the radius of a circle and print out the circumference of the circle.

User Interface

Algorithm (Program Thinking)

Syntax (Write Program)

Calculate Circumference of Circle

- .Ask user for radius of circle
 - radius = input('Enter the radius: ')
- .Create variable named circumference
 - circumference = 2 * 3.14 * radius
- .Print the circumference
 - print(circumference)

What Happened ?

Python 3.4.3 Shell

File Edit Shell Debug Options Window Help

Python 3.4.3 (v3.4.3:9b73f1c3e601, Feb 24 2015, 22:43:06) [MSC v.1600 32 bit (Intel)] on win32

Type "copyright", "credits" or "license()" for more information.

>>> ===== RESTART =====

>>>

radius? 2

Traceback (most recent call last):

File "C:\Users\Thomas Trickel\Desktop\Python\circumference.py", line 2, in <module>

 circumference = 2 * 3.14 * radius

TypeError: can't multiply sequence by non-int of type 'float'

>>>



**GREAT
JOB!**

