Basic Print Statement Example

```
print("Hello, world!")
```

Printing Strings with Single, Double, and Triple

```
print("Hello, world!")
print('Hello, world!')
print("""Hello, world!""")
```

```
Hello, world!
Hello, world!
Hello, world!
```

Handling Line Breaks Using Triple Quotes

```
print("""Hello,
world!""")
```

```
Hello,
world!
```

Printing a Message Using Variable

```
msg = "Hello, world!"
print(msg)
```

```
Hello, world!
```

Basic String Concatenation

```
print("Hello, " + "world!")
```

```
Hello, world!
```

String Formatting Using f-Strings

```
name = "Alice"
print(f"Hello, {name}!")
```

```
Hello, Alice!
```

Inserting Values into Strings with format() Method

```
print("Hello, {}!".format("world"))
```

```
Hello, world!
```

Old-Style String Formatting Using % Operator

```
print("Hello, %s!" % "world")
```

```
Hello, world!
```

Printing Text Using sys.stdout.write() Method

```
import sys
sys.stdout.write("Hello, world!\n")
```

```
Hello, world!
14
```

Creating Log Entries Using logging.info() Method

```
import logging
logging.info("Hello, world!")
```

Basic Data Types in Python

```
a = 10
b = 12.5
c = "Python"
d = True
print("a =", a, "Type:", type(a))
print("b =", b, "Type:", type(b))
print("c =", c, "Type:", type(c))
print("d =", d, "Type:", type(d))
```

```
a = 10 Type: <class 'int'>
b = 12.5 Type: <class 'float'>
c = Python Type: <class 'str'>
d = True Type: <class 'bool'>
```

Python Program to Input a Number and Print It

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

```
Please enter a number:
18
Value = 18
```

Finding the Length of a Number Using Strings in Python

```
number = "12"
number_of_digits = len(number)
print("Number", number, "has", number_of_digits, "digits.")
```

```
Number 12 has 2 digits.
```

Double-click (or enter) to edit

```
"A" + "wake"
```

```
'Awake'
```

String Concatenation: Correct vs Incorrect Usage

```
#print("Your favorite color is " + color + !)
 print("Your favorite color is " + "color" + "!")
#print("Your favorite color is " + color + "!")
```

```
Your favorite color is color!
```

Checking Variable Types Using type() Function

```
x = 1
y = 2.0
print(x, type(x))
print(y, type(y))
```

```
1 <class 'int'>
2.0 <class 'float'>
```

Basic Arithmetic Operations

```
a = int(input("Enter first number: "))
b = int(input("Enter second number: "))
print("Addition =", a + b)
print("Subtraction =", a - b)
```

```
print("Multiplication =", a * b)
print("Division =", a / b)
print("Floor Division =", a // b)
print("Modulus (Remainder) =", a % b)
print("Power =", a ** b)
```

```
Enter first number: 18
Enter second number: 16
Addition = 34
Subtraction = 2
Multiplication = 288
Division = 1.125
Floor Division = 1
Modulus (Remainder) = 2
Power = 121439531096594251776
```

Printing a Menu and Accepting User Choices

```
print("Lunch Menu")
print("----------")
print("Burrito")
print("Enchilada")
print("Taco")
print("Salad")
print()
item1 = input("Item #1: ")
item2 = input("Item #2: ")
```

Float Formatting with f-Strings

```
print(f'{0.1:.30f}')
print(f'{0.2:.30f}')
print(f'{0.4:.30f}')
```

```
0.100000000000000005551115123126
0.200000000000000011102230246252
0.400000000000000022204460492503
```

Printing Multiple Arguments with print() Function

```
print("grand", "mother")
```

```
grand mother
```