Basic Python Programs

Python Program to Print Hello world!

- Printing a message on screen is very simple in Python programming. Unlike java where you have to write a couple of lines of code to do this task, In Python you can print a message on screen with a single line of code (print statement).

- # This prints Hello World on the output screen
- print('Hello World')

- **Output:**
- Hello World

- In this program, we have used the built-in print() function to print the string Hello, world! on our screen.

Getting Input from User in Python

- **Get String input from user:** In this program we will see how to receive string input from user in Python.

- # Python Program - Get String Input from User

- str = input("Enter any string: ")

- print(str)

- **Get Integer Input from user:** As we have seen in the above example that when we receive the input using input() function it is considered as String. To convert the string input to integer we use the int() function over the received input.

- # Python Program - Get Integer Input from User

- num = int(input("Enter an Integer: "))

- print(num)

- **Get Float Input from user**: This is similar to what we have seen above, except that we use float() function to convert the received input into a float value.

- # Python Program - Get Float Input from User

- num = float(input("Enter a float value: "))

- print(num)

Python Program to Add Two Numbers

- # Store input numbers
- num1 = input('Enter first number: ')
- num2 = input('Enter second number: ')
- # Add two numbers
- sum = float(num1) + float(num2)
- # Display the sum
- print('The sum of {0} and {1} is {2}'.format(num1, num2, sum))
- **Output**
- Enter first number: 1.5
- Enter second number: 6.3
- The sum of 1.5 and 6.3 is 7.8

Python Program to Calculate the Area of a Rectangle

- \# Python Program to find the area of rectangle
- length = float(input('Enter length of rectangle: '))
- breadth = float(input('Enter breadth of rectangle: '))
- \# calculate the area
- area = length*breadth
- print('The area of the rectangle is %0.2f' %area)
- Output
- Enter length of rectangle:4
- Enter breadth of rectangle:5
- The area of the rectangle is 20.00

Assignments

- Python Program to Find the Square Root

- Python Program to Calculate the Area of a Triangle

- Python Program to Swap Two Variables

- Python Program to Generate a Random Number

- Python Program to Convert Miles to Kilo meters

- Python Program to Convert Fahrenheit to Celsius

Thank You