PYTHON TUTORIAL FOR BEGINNERS

Chapter - 07

Input Function in Python

- Input Function – Definition
- Input Function – Example
- Handling Different Data Types

Input Function in Python

The input function is an essential feature in Python that allows to take **input from the user**. This is particularly useful when you want to create interactive programs where the user can provide data during execution.

Also known as **user input function**.

How input Function Works:

The input function waits for the user to type something and then press Enter. It reads the input as a string and returns it.

Example:

```python
# Prompting the user for their name
name = input("Enter your name: ")

# Displaying the user's input
print("Hello, " + name + "!")
```

Input Function – Add 2 Numbers

A simple program that takes two numbers as input from the user and prints their sum.

```python
# Prompting the user for the first and second number
num1 = input("Enter the first number: ")

num2 = input("Enter the second number: ")
```

```python
# Since input() returns a string, we need to convert it to an integer
    num1 = int(num1)

    num2 = int(num2)
# Calculating the sum and display the result
    sum = num1 + num2

    print("The sum of", num1, "and", num2, "is:", sum)
```

Multiple Input from User & Handling different Data Types

```python
# input from user to add two number and print result
    x = input("Enter first number: ")

    y = input("Enter second number: ")
# casting input numbers to int, to perform sum
    print(f"Sum of {x} & {y} is {int(x) + int(y)}")
```

Home Work – User input and print result

Write a program to input student name and marks of 3 subjects. Print name and percentage in output.

```python
# Prompting the user for their name and 3 subject marks
    name = input("Enter your name: ")

    hindi_marks = input("Enter Hindi Marks: ")

    maths_marks = input("Enter Maths Marks: ")

    science_marks = input("Enter Science Marks: ")
# Calculating percentage for 3 subjects
    percentage = ((int(hindi_marks) + int(maths_marks) +
    int(science_marks))/300)*100
# Printing the final results
    print(f"{name}, have {percentage}%. Well done & keep
    working hard!!")
```

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