

Python_Input_Function_2

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1 Question:

Write a program that takes a number as input and prints its square.

Answer:

```
[3]: num = int(input("Enter a number: "))  
print("Square:", num ** 2)
```

Enter a number: 4

Square: 16

2 Question:

Write a program that asks for a number and prints whether it is divisible by 3.

Answer:

```
[4]: num = int(input("Enter a number: "))  
if num % 3 == 0:  
    print("Divisible by 3")  
else:  
    print("Not divisible by 3")
```

Enter a number: 12

Divisible by 3

```
[5]: num = int(input("Enter a number: "))  
if num % 3 == 0:  
    print("Divisible by 3")  
else:  
    print("Not divisible by 3")
```

Enter a number: 20

Not divisible by 3

3 Question:

How would you check if a number is divisible by both 3 and 7?

Answer:

```
[6]: num = int(input("Enter a number: "))
    if num % 3 == 0 and num % 7 == 0:
        print("Divisible by both 3 and 7")
    else:
        print("Not divisible by both 3 and 7")
```

Enter a number: 55

Not divisible by both 3 and 7

```
[7]: num = int(input("Enter a number: "))
    if num % 3 == 0 and num % 7 == 0:
        print("Divisible by both 3 and 7")
    else:
        print("Not divisible by both 3 and 7")
```

Enter a number: 21

Divisible by both 3 and 7

4 Question:

How do you accept a list of comma-separated values as input?

Answer:

```
[9]: values = input("Enter comma-separated values: ").split(',')
```

Enter comma-separated values: apple, banana, cherry

```
[10]: values
```

```
[10]: ['apple', ' banana', ' cherry']
```

5 Question:

Write a Python program that takes two numbers as input and prints their product.

Answer:

```
[11]: num1 = int(input("Enter first number: "))
    num2 = int(input("Enter second number: "))
    print("Product:", num1 * num2)
```

Enter first number: 88

Enter second number: 66

Product: 5808

6 Question:

Write a program that checks if the input number is a prime number.

Answer:

```
[16]: num = int(input("Enter a number: "))

if num > 1:
    for i in range(2, num):
        if num % i == 0:
            print("Not a prime number")
            break
    else:
        print("Prime number")
else:
    print("Not a prime number")
```

Enter a number: 101

Prime number

7 Question:

How can you accept a boolean value (True/False) from the user?

Answer:

```
[17]: user_input = input("Enter True or False: ").lower() == "true"
```

Enter True or False: TRUE

```
[18]: user_input
```

```
[18]: True
```

8 Question:

Write a program that accepts a string and prints the reverse of that string.

Answer:

```
[20]: user_input = input("Enter a string: ")
print("Reversed string:", user_input[::-1])
```

Enter a string: Hello World!

Reversed string: !dlroW olleH

9 Question:

Write a program that asks for a user's name and age and prints a message.

Answer:

```
[21]: name = input("Enter your name: ")
      age = int(input("Enter your age: "))
      print(f"Hello, {name}. You are {age} years old.")
```

Enter your name: Akshay

Enter your age: 20

Hello, Akshay. You are 20 years old.

10 Question:

Write a program to calculate the factorial of a number using input().

Answer:

```
[22]: num = int(input("Enter a number: "))
      factorial = 1
      for i in range(1, num + 1):
          factorial *= i
      print("Factorial:", factorial)
```

Enter a number: 8

Factorial: 40320