Python_Input_Function_4

June 2, 2025

1 Question:

How would you accept a date input from the user in Python?

Answer:

```
[1]:    from datetime import datetime
        date_str = input("Enter a date (YYYY-MM-DD): ")
        date = datetime.strptime(date_str, "%Y-%m-%d")
        print("Entered date:", date)
```

```
Enter a date (YYYY-MM-DD):  2025-05-16

Entered date: 2025-05-16 00:00:00
```

2 Question:

Write a program that checks if the entered number is divisible by both 3 and 5.

Answer:

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

```
Enter a number:  15

Divisible by both 3 and 5
```

3 Question:

Write a program to swap the values of two variables using `input()`.

Answer:

```
[3]:    a = input("Enter first value: ")
        b = input("Enter second value: ")
        a, b = b, a
        print(f"Swapped values: a = {a}, b = {b}")
```

```
Enter first value:  88
Enter second value:  99

Swapped values: a = 99, b = 88
```

4   Question:

Write a program to take user input and print it without spaces between words.

Answer:

```
[4]: user_input = input("Enter a string: ")
     print(user_input.replace(" ", ""))
```

```
Enter a string:  Hello World, welcome!

HelloWorld,welcome!
```

5   Question:

How do you validate if an entered input is a valid email address?

Answer:

```
[5]:    import re
        email = input("Enter email: ")
        if re.match(r"[^@]+@[^@]+\.[^@]+", email):
            print("Valid email")
        else:
            print("Invalid email")
```

```
Enter email:  absd.sddd@gmail.ccc

Valid email
```

```
[6]:    import re
        email = input("Enter email: ")
        if re.match(r"[^@]+@[^@]+\.[^@]+", email):
            print("Valid email")
        else:
            print("Invalid email")
```

```
Enter email:  aaaaa12@aas@.ddd

Invalid email
```

6   Question:

Write a program that accepts a number and prints its cube.

Answer:

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

```
Enter a number:  9

Cube: 729
```

7 Question:

How would you accept and store multiple names from the user?

Answer:

```
[9]: names = input("Enter names separated by commas: ").split(',')
     print("Names:", names)
```

```
Enter names separated by commas:  Apple, Banana, Orange

Names: ['Apple', ' Banana', ' Orange']
```

8 Question:

How would you extract numbers from a string entered by the user?

Answer:

```
[10]:    import re
         text = input("Enter a string: ")
         numbers = re.findall(r'\d+', text)
         print("Extracted numbers:", numbers)
```

```
Enter a string:  yes, he is 20 years old

Extracted numbers: ['20']
```

```
[12]:    import re
         text = input("Enter a string: ")
         numbers = re.findall(r'\d+', text)
         print("Extracted numbers:", numbers)
```

```
Enter a string:  Yes, they bored in 2020 and 2025

Extracted numbers: ['2020', '2025']
```

9 Question:

How do you find the maximum number from a list of integers entered by the user?

Answer:

```
[13]:    numbers = list(map(int, input("Enter numbers separated by spaces: ").
         ↪split()))
```

```
    print("Maximum number:", max(numbers))
```

Enter numbers separated by spaces: 1 2 3 8 5 99 52 55 23 58 55 55 58975 55555
5555555

Maximum number: 5555555

10   Question:

How would you prompt the user for input until they enter a valid number?

Answer:

[14]:
```python
while True:
    try:
        num = int(input("Enter a valid number: "))
        break
    except ValueError:
        print("Invalid input, please enter a number.")
```

Enter a valid number: 585

[15]:
```python
while True:
    try:
        num = int(input("Enter a valid number: "))
        break
    except ValueError:
        print("Invalid input, please enter a number.")
```

Enter a valid number: 888.5

Invalid input, please enter a number.

Enter a valid number: kddd

Invalid input, please enter a number.

Enter a valid number: 885