

PYTHON ASSIGNMENT 8

1. Is the Python Standard Library included with PyInputPlus?

PyInputPlus is a Python 3 and 2 module to provide `input()`- and `raw_input()`-like functions with additional validation features. PyInputPlus is not a part of the Python Standard Library, we must install it separately using Pip.

2. Why is PyInputPlus commonly imported with `import pyinputplus as pyip`?

You can use regular expressions to create your own input validation code, but for common cases, it's easier to use an existing module, such as PyInputPlus. You can import the module with `import pyinputplus as pyip` so that you can enter a shorter name when calling the module's functions.

PyInputPlus has functions for entering a variety of input, including strings, numbers, dates, yes/no, True/False, emails, and files. While `input()` always returns a string, these functions return the value in an appropriate data type. The `inputChoice()` function allow you to select one of several pre-selected options, while `inputMenu()` also adds numbers or letters for quick selection.

3. How do you distinguish between `inputInt()` and `inputFloat()`?

`inputInt()` - Accepts an integer number. Also has `min` / `max` / `greaterThan` / `lessThan` parameters. Returns an int, not a str. `inputFloat()` - Accepts a floating-point number.

4. Using PyInputPlus, how do you ensure that the user enters a whole number between 0 and 99?

To ensure that the user enters a whole number between 0 and 99 using PyInputPlus, you can use the `inputInt()` function with the `min` and `max` arguments: `pyip.inputInt(min=0, max=99)`.

5. What is transferred to the keyword arguments `allowRegexes` and `blockRegexes`?

The `allowRegexes` and `blockRegexes` keyword arguments accept lists of regular expressions. `allowRegexes` is a list of regex patterns that the input is allowed to match, while `blockRegexes` is a list of regex patterns that the input is not allowed to match.

6. If a blank input is entered three times, what does `inputStr(limit=3)` do?

`inputStr(limit)` is a function in PyInputPlus that takes the optional `limit` argument, which specifies the maximum number of attempts a user has to provide valid input before the function raises a `RetryLimitException`.

7. If blank input is entered three times, what does `inputStr(limit=3, default='hello')` do?

The function returns the value 'hello'.