1. Is the Python Standard Library included with PylnputPlus?

No, the Python Standard Library is not included with PylnputPlus. PylnputPlus is a third-party library that provides additional functionalities for taking input from users in Python, such as validating input, handling timeouts, and allowing for custom input handling. However, it does not include the entire Python Standard Library. The Python Standard Library is a collection of modules and packages that come with Python itself and provides a wide range of functionality for tasks like file handling, networking, data processing, and more.

2. Why is PylnputPlus commonly imported with import pyinputplus as pypi?

The practice of importing PylnputPlus as pypi is a matter of personal preference and coding style. It allows developers to create a shorter and more convenient alias for the library to use throughout their code.

The name pypi is not directly related to the Python Package Index (PyPI), which is a repository for Python packages. It is simply a chosen alias for the PyInputPlus library. The selection of the alias pypi is arbitrary and can be changed to any other valid identifier.

By importing PyInputPlus as pypi, developers can use shorter and more readable code when calling functions and methods from the library. For example, instead of writing pyinputplus.inputStr(), they can simply write pypi.inputStr(). This can make the code more concise and improve readability, especially when using multiple functions from the library.

It's important to note that pypi is just a convention and not a requirement. Developers can choose any other valid alias when importing PylnputPlus, based on their preference and coding style.

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

In PylnputPlus, the functions inputInt() and inputFloat() are used to obtain user input as an integer or a float, respectively. Here's how you can distinguish between the two:

- 1. inputInt(prompt=None, default=None, limit=None, timeout=None) :
 - The inputInt() function is used to get user input specifically as an integer.
 - It displays an optional prompt to the user and waits for them to enter an integer value.
 - If the user enters a non-integer value, it will repeatedly prompt for a valid integer input until one is provided.

- It also supports additional features like providing a default value, setting input limits, and specifying a timeout for input.
- 2. inputFloat(prompt=None, default=None, limit=None, timeout=None) :
 - The inputFloat() function is used to get user input specifically as a float.
 - Similar to inputInt(), it displays an optional prompt and waits for the user to enter a float value.
 - If the user enters a non-float value, it will keep prompting until a valid float input is given.
 - It also supports features like default values, input limits, and timeouts, just like inputInt().

To summarize input Int () is used when you want to ensure that the user enters an integer

4. Using PylnputPlus, 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 PylnputPlus, you can use the inputInt() function with the min and max parameters set accordingly. Here's an example:

```
import pyinputplus as pypi

number = pypi.inputInt("Enter a whole number between 0 and 99: ", min =0, max=99)
print("You entered:", number)
```

In the example above, inputInt() is used to prompt the user for input, with the provided prompt message "Enter a whole number between 0 and 99: ". The min parameter is set to 0 and the max parameter is set to 99, which restricts the accepted input range to be between 0 and 99 (inclusive).

If the user enters a value outside this range or a non-integer value, inputInt() will repeatedly prompt for a valid input until the criteria are met. The accepted input will be returned as an integer.

Note that PylnputPlus provides additional functionalities like handling default values, input validation, and timeouts, which can be explored in the library's documentation for more advanced use cases.

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

In PyInputPlus, the keyword arguments allowRegexes and blockRegexes are used to specify regular expressions that define patterns for allowing or blocking certain input values.

Here's an explanation of what is transferred to these keyword arguments:

1 allowRegexes :

- This keyword argument accepts a list of regular expressions.
- When provided, PyInputPlus checks the user's input against each regular expression in the list.
- If the user's input matches any of the regular expressions in allowRegexes, it is considered valid and accepted.
- If the input does not match any of the regular expressions in allowRegexes, PyInputPlus will prompt for input again until a valid value is provided.
- The regular expressions in allowRegexes define patterns for allowed input values.

2. blockRegexes :

- This keyword argument also accepts a list of regular expressions.
- When provided, PyInputPlus checks the user's input against each regular expression in the list.
- If the user's input matches any of the regular expressions in blockRegexes, it is considered invalid and blocked.
- If the input matches any of the regular expressions in blockRegexes, PylnputPlus will prompt for input again until a valid value is provided.
- The regular expressions in blockRegexes define patterns for disallowed input values.

By using allowRegexes and blockRegexes, you can define specific patterns to restrict or allow certain types of input values based on regular expressions. This provides flexibility in validating and filtering user input in PyInputPlus.

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

When inputStr(limit=3) is used and a blank input is entered three times consecutively, it raises a pyinputplus.RetryLimitException exception.

The limit parameter in inputStr() specifies the maximum number of times PyInputPlus will allow the user to retry entering a valid input. In this case, with limit=3, the user is given three chances to provide a non-blank input.

If the user enters a blank input for the first, second, and third attempt, the inputStr(limit=3) function will raise the RetryLimitException, indicating that the retry limit has been reached. This exception can be caught and handled in your code as needed.

Here's an example that demonstrates the behavior:

```
try:
    user_input = pypi.inputStr("Enter a non-blank input: ", limit=3)
    print("You entered:", user_input)
except_pypi.RetryLimitException:
```

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

If a blank input is entered three times consecutively and inputStr(limit=3, default='hello') is used, the function will return the default value 'hello' instead of raising an exception.

The default parameter in inputStr() specifies the value that PylnputPlus should return if the user enters a blank input and the retry limit is reached. In this case, with default='hello' and limit=3, if the user provides a blank input three times in a row, the function will return the default value 'hello' instead of raising an exception.

Here's an example to illustrate this behavior:

```
import pyinputplus as pypi

user_input = pypi.inputStr("Enter a non-blank input: ", limit=3, defa
ult='hello')
print("You entered:", user_input)
```

If the user enters a blank input three times consecutively, the inputStr() function will return 'hello', and the output will be:

```
You entered: hello
```

The default parameter allows you to provide a fallback value when the retry limit is reached, ensuring that you always get a valid input, even if it is a default value.