Python Basics Assignment 8

!pip install PyInputPlus

Collecting PyInputPlus	Coll	ecting	PyIr	nputP	lus
------------------------	------	--------	------	-------	-----

Downloading PyInputPlus-0.2.12.tar.gz (20 kB)

Installing build dependencies: started

Installing build dependencies: finished with status 'done'

Getting requirements to build wheel: started

Getting requirements to build wheel: finished with status 'done'

Preparing wheel metadata: started

Preparing wheel metadata: finished with status 'done'

Collecting pysimplevalidate>=0.2.7

Downloading PySimpleValidate-0.2.12.tar.gz (22 kB)

Installing build dependencies: started

Installing build dependencies: finished with status 'done'

Getting requirements to build wheel: started

Getting requirements to build wheel: finished with status 'done'

Preparing wheel metadata: started

Preparing wheel metadata: finished with status 'done'

Collecting stdiomask>=0.0.3

Downloading stdiomask-0.0.6.tar.gz (3.6 kB)

Installing build dependencies: started

Installing build dependencies: finished with status 'done'

Getting requirements to build wheel: started

Getting requirements to build wheel: finished with status 'done'

Preparing wheel metadata: started

Preparing wheel metadata: finished with status 'done'

Building wheels for collected packages: PyInputPlus, pysimplevalidate, stdiomask

Building wheel for PyInputPlus (PEP 517): started

Building wheel for PyInputPlus (PEP 517): finished with status 'done'

Created wheel for PyInputPlus: filename=PyInputPlus-0.2.12-py3-none-any.whl size=11297

sha256=83db9b812c14ebe959b9a3ff2c12ee22575b099c5cdd45dcf356fe4a47fa4060

Stored in directory:

 $c: \wheels b4 6e 2f 8a852732646 cabec 36c3 fe8f c060 ec5 bea1c1 be711432 c47f7$

Building wheel for pysimplevalidate (PEP 517): started

Building wheel for pysimplevalidate (PEP 517): finished with status 'done'

Created wheel for pysimplevalidate: filename=PySimpleValidate-0.2.12-py3-none-any.whl size=16175 sha256=37501718896711134a4d2974a73d4e6a35e1f6d07d517f5c01d67646ae11fba0

Stored in directory:

 $c: \wheels \b1\44\4a\043a4f4c4512c7cdfb0c2b8408b18b0de5fd45cac57f5dfa02$

Building wheel for stdiomask (PEP 517): started

Building wheel for stdiomask (PEP 517): finished with status 'done'

Created wheel for stdiomask: filename=stdiomask-0.0.6-py3-none-any.whl size=3306

sha256=7a9495433ee53fb7b22f10f7851eb5f14f9ca6d7406b60265fe914fe19b6291c Stored in directory:

 $c: \wheels\1d\aa\47\f41f117d22c5de82e95d9342f44da578c80610739a\\2d5ebec4$

Successfully built PyInputPlus pysimplevalidate stdiomask

Installing collected packages: stdiomask, pysimplevalidate, PyInputPlus

Successfully installed PyInputPlus-0.2.12 pysimplevalidate-0.2.12 stdiomask-0.0.6

1. Is the Python Standard Library included with PyInputPlus?

Ans: No, **PyInputPlus** is not a part of Python Standard Library, it needs to be installed explicitly using the command **!pip install PyInputPlus**

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

Ans: You can import the module with **import pyinputplus as pypi** so that you can enter a shorter name when calling the module's functions.

import pyinputplus as pypi

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

Ans: inputInt() function Accepts an integer value. This also takes additional parameters min, max, greaterThan and lessThan for bounds. And it always returns an int.

Whereas **inputFloat()** function Accepts a floating-point numeric value. this also takes additional **min**, **max**, **greaterThan** and **lessThan** parameters. and always returns a float.

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

Ans: PyInputPlus module provides a function called as inputInt() which only returns only integer values. inorder to restrict the input between 0 and 99, i'ii use parameters like min & max to ensure that user enters the values between the defined range only.

```
import pyinputplus as pyip
wholenumber = pyip.inputInt(prompt='Enter a number: ', min=0, max=100)
print(wholenumber)
```

```
import pyinputplus as pyip wholenumber = pyip.inputInt(prompt='Enter a number: ', min=0, max=100) print(wholenumber)
```

Enter a number: 12

12

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

Ans: we can use **allowRegexes** and **blockRegexes** keyword arguments to take list of regular expression strings to determine what the pyinputplus function will reject or accept valid input.

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

Ans: The statement inputStr(limit=3) will throw two exceptions ValidationException and RetryLimitException. The first exception is thrown because blank values are not allowed by inputStr() function by default. it we want to consider blank values as valid input, we have to set blank=True.

The second exception is occured because we have reached the max limit we have specified by using **limit** parameter. inorder to avoid this exception we can use **default** parameter to return a default value when max limit is reached.

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

Ans: Since the default parameter is set to hello. after blank input is entered three times instead of raising **RetryLimitException** exception. the function will return hello as response to the calling function