**Python Assignment 1**

**Q1:What is JPython and CPython?**

JPython: It is a Implementation of Python Programming language that can run on the Java platform. It used Java Modules rather than python modules. It compiles into java bytecode. In Jpython we can use Java class library function.

CPython: It is the Default Implementation of Python. Written in C and Python Language. It has mixture of C and Python Libraries. It compiles the python source code itno intermediate bytecode

JPython is slow as compared to CPython and It also lacks compatibility with XCPython Libraries

**Q2: Difference Betwwen ASCII and Unicode?**

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| --- | --- |
| Python2 | Python3 |
|  |  |
| ASCII is used | Unicode is Used |
| xrange() is used for iterable objects | range() is used for Iterable objects |
| Print is a statement  print “Hello” | print() is a built in function  print(“Hello”) |
| Round off the number to the nearest whole no.  Eg: 7/2=3 | It gives you the exact result  Eg: 7/2=3.5 |
|  |  |

**Q3: Difference Betwwen ASCII and Unicode?**

|  |  |
| --- | --- |
| ASCII | Unicode |
| Less Space Required | More Space Required |
| American Standard code for information exchange | Universal Character Set |
| It Supports only 128 characters | It Supports wide range of Characters |
| 7 bit is used to represent a character | 8bit, 16 bit or 32 bit is used to represent a character depending on the encoding type |