**Itsc203\_lab1**

**Prob1**

|  |  |
| --- | --- |
| **C Program** | **Python Program** |
| -Requires explicit use of ;  -Memory locations and sizes can be predicted  -Data types must be declared | -; not required  -Memory is dynamically allocated outside our control  -Data types are determined by the interpreter |

**python**



Executed output

Interpreter  
compiler, byte code, VM

Source file

**C**



executable

Assembly file

Object file

Source file

**Text

Description automatically generated**

**A picture containing text, device, meter

Description automatically generated**

**Prob 2**

**Text

Description automatically generated**

**A picture containing graphical user interface

Description automatically generated**

**Prob3**



A screenshot of a computer

Description automatically generated with medium confidence

1. with exit(), ctrl z, and ctrl d
2. The >>> shows that we are in the Python REPL
3. pressing q

|  |  |
| --- | --- |
| Functionality Required | List function used |
| 1. Get the number of times 12 is in the list | count() — mylist.count(12) |
| 1. Get the current position of the number 12.45 | index() — mylist.index(12.45) |
| 1. Reverse the order of the list | reverse() – mylist(reverse) |
| 1. Add the Word “Property” to the beginning of the list | insert() – mylist.insert(0, “Property”) |
| 1. A. Remove the word “Really” from the list   B. Remove all content from the list | remove() – mylist.remove(“Really”) |
| clear() – mylist.clear() |

**Prob4**

**Text

Description automatically generated**

**Timeline

Description automatically generated**

**Prob5**

**A picture containing text, computer, screenshot

Description automatically generated**

**Graphical user interface, application, website

Description automatically generated**