## **WEEKLY-EXERCISE - 01**

I	CS 365-51	Metropolitan State University/MN		
N	eek 1 Due 11:59pm, Sunda	y, Aug. 28, 2022	<b>Fall 2022</b>	
N	ame:	Score:		
	ease complete both Parts I and II and then uplo r Weekly Exercise 01 before the deadline (total 2		der the dropbox	
	art I: Based on the discussion in Lecture 1 and Chaswers below, only one answer per question. (1 points)		or <mark>highlight</mark> your	
1.	<ul> <li>Based on the discussion on "compilation process,"</li> <li>A) generate machine code</li> <li>B) convert characters in the source program into I</li> <li>C) generate intermediate code</li> <li>D) transform lexical units into parse trees which response to the converted of the converted o</li></ul>	exical units		
2.	Which of the following category of the programm A) Markup B) Logic C) Imperative D) Functional	ing languages does Python	belong to?	
3. Based on the discussion on Programming Language F abstraction" refers to				
	<ul> <li>A) A relatively small set of primitive constructs coways</li> <li>B) The ability to define and use complex structure ignored</li> <li>C) Presence of two or more distinct referencing m</li> <li>D) Few constructs, a small number of primitives,</li> </ul>	es or operations in ways the	at allow details to be	
4.	<pre>In Java, a user can increment a simple integer vari A) count++ B) ++count C) count = count + 1 D) count =+ 1</pre>	able in each of the followin	g ways except	
	Which of the following is not considered as one of mputers?	f the characteristics of von	Neumann	
	<ul> <li>A) Instructions and data are piped from memory t</li> <li>B) Data and programs stored in memory</li> <li>C) Multiple CPUs and parallel processing</li> <li>D) Memory is separate from CPU</li> </ul>	o CPU		

- 6. Based on the discussion in Chapter 1, which of the following statements is incorrect for Just-in-Time (JIT) implementation systems?
  - A) The intermediate language of a subprogram is compiled and translated to machine code whenever the subprogram is called. In other words, the machine code of a subprogram is not kept for subsequent calls;
  - B) JIT systems are widely used for Java programs;
  - C) The source programs are initially translated into an intermediate language;
  - D) In essence, JIT systems are delayed compilers.
- 7. Which of the following programming languages has been mainly used for business applications?
  - A) Prolog
  - B) LISP
  - C) Fortran
  - D) COBOL
- 8. All the following are most important criteria for evaluating programming languages except
  - A) Writability
  - B) Tangibility
  - C) Readability
  - D) Reliability
- 9. Based on Figure 1.3 on page 24 of your textbook, which of the following functions does not work with "symbol table" in the compilation process?
  - A) Intermediate code generator and semantic analyzer
  - B) Lexical analyzer
  - C) Syntax analyzer
  - D) Optimization
- 10. Which of the following statements is not true?
  - A) The connection speed between CPUs is the bottleneck of von Neumann computers
  - B) The major methods of implementing programming languages are: compilation, pure interpretation, and hybrid implementation
  - C) Program instructions often can be executed much faster than the speed of the connection
  - D) Major influences on language design have been machine architecture and software development methodologies

## Part II: Please study the handouts and follow the steps provided in the handouts to complete the following tasks: (Total 10 points)

1. Please provide the screenshot that shows that you have changed your password on our Linux server properly: (please replace the example shown below with yours, 3 points)

```
[ics365fa2235@sp-cfsics:~$ passwd
Changing password for ics365fa2235.
Current password:
New password:
[Retype new password:
passwd: password updated successfully
[ics365fa2235@sp-cfsics:-$ ssh ics365fa2235@sp-cfcsc01
[ics365fa2235@sp-cfcsc01's password:
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.4.0-122-generic x86_64)
 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
 * Support:
  System information as of Wed Jul 20 12:47:27 CDT 2022
  System load: 0.0
  | Vasge of /: 18.5% of 195.57GB | Users logged in: 1 | Nemory usage: 9% | IPv4 address for ens160: 10.1.215.11
  Swap usage:
 * Super-optimized for small spaces - read how we shrank the memory
    footprint of MicroK8s to make it the smallest full K8s around.
   https://ubuntu.com/blog/microk8s-memory-optimisation
0 updates can be applied immediately.
Last login: Wed Jul 20 12:42:49 2022 from 73.94.237.97
[ics365fa2235@sp-cfsics:~$
```

2. Please provide the screenshot that shows you have successfully created your homepage on our Linux server properly. (please replace the example shown below with yours, 3 points)

## ICS 365 Organization of Programming Languages Metropolitan State University This web site is still under the construction. Please send your comments to Testing Site. Here is a website for learning Unix/Linux and Shell Programming: What is "the Shell"? by W. E. Shotts, Jr.

3. Please add two more links for learning Linux and Shell Programming to the web page shown above and provide the screenshot similar to the one provided below. You need to use a proper title to replace either "My first selection" or "My second selection" on your updated page: (please replace the example shown below with yours, 4 points)

## ICS 365 Organization of Programming Languages Metropolitan State University This web site is still under the construction. Please send your comments to Testing Site. Here are three websites for learning Unix/Linux and Shell Programming: What is "the Shell"? by W. E. Shotts. Jr. My first selection My second selection