



Ministry of Higher Education

Kabul University

Faculty of Information Technology and Telecommunications

Department of Information Science and Engineering

PROGRAMMING FUNDAMENTALS Assignment

1st unit Questions

Organizer: Mohammad Yaqoub Naikbin

Under the supervision of: Mohammad Hanif Gharanai

Multiple Choice Questions:

1: A program must be converted to _____ language to be executed by a computer.

Machine

2: _____ is a logical programming language.

PROLOG

3: The program written only using 0s and 1s is _____.

Machine

4: The founder of python is _____.

Guido Van Rossum

5: python is a compiled language.

True

6: This programming paradigm emerged to remove the reliance on the GOTO statements.

Structured

7: which python library is popularly referred to as the HTTP library written for humans.

Requests

8: In which phase of SDLC does the software developer analyses whether software can be prepared to fulfill all the requirements of the end user?

Planning

9: This license allows a potent grant for derivative works.

Apache license

10: A group of people maintain exclusive control over the source code of a software such software is called _____.

Proprietary

Review Questions:

1: What is a programming language?

Answer: A programming language is a computer language engineered to communicate instructions to machine.

2: Briefly explain the steps to install Anaconda.

Answer: <http://www.continuum.io/downloads>

3: Describe the steps to install PyCharm.

Answer: <http://www.jetbrains.com/pycharm/downloads>.

4: Outline the advantages & disadvantages of machine language.

Answer: The main advantages of machine language is that it can run and execute very fast

And disadvantages of it are as follows it's hard to maintain and debug, has no mathematical functions available and etc.

5: Why do we need programs? Comment on this.

Answer: Because it's very important like one definition of the computer is that it is a programming language so if we don't have any program we can't run and use from computer in my opinion.

6: Outline the advantages & disadvantages of high level language.

Answer: easier to modify, faster to write code.

Portable code, as it is designed to run on multiple machines. And disadvantages of interpreter are that it can't run on hard software, its speed is slowly.

7: Give a brief explanation of the history of python.

Answer: The history of the python programming languages dates back to the late 1980 and the owner of it is GUIDO VAN ROSSUM.

8: Differentiate between Interpreter and Compiler.

Answer: speed>>>Interpreter=>slow, Compiler=>fast.

Error>>>immediately, after translate.

Execution>>>line by line, whole program at once.

9: Mention disadvantages of Assembly language.

Answer: There are no symbolic names for memory location.

It is difficult to read. Dependent making it difficult for portability.

10: Discuss various steps involved in the software development life cycle.

Answer: Planning- analyzing- design- development –testing- deployment- maintenance.

11: Give a brief description of open source software.

Answer: It is a software that all people can see it, share it, change it and like these programs python, Linux, firebox etc.

12: Explain the different types of licenses under which open source software can be released.

Answer: these are the open source licenses are as follows:

Apache license: has authored the apache license.

BSD license: is a class of extremely simple and very liberal license.

GNU license, MIT license.