**CSC 3020 – Java Programming**

**Homework 1 – [your name]**

**25 points – Due May17, 10am**

**Late deadline is May 19, 11:59pm, but 20% off**

**a)** Save this document with your name and the homework number somewhere in the file name.

**b)** Type/paste your answers into the document.

**c)** Submit this document and your .java file(s) to the Blackboard item where you downloaded this document. Do not submit a zip file but individually attach your files.

**1) [4 points]** Using information from the Internet or the textbook, list any four facts about the Java programming language (history of, developers of, owners of, supported hardware, supported operating systems, etc.). Include your sources.

|  |  |  |
| --- | --- | --- |
| # | Fact | Source |
| 1 | Started as a project to create alternative to C/C++ |  |
| 2 | Currently the most popular programming language to learn according to TIOBE Index |  |
| 3 | Remains go-to language for enterprises |  |
| 4 | Java runs on over a billion smartphones today tanks to Android being the most popular and common smartphone OS |  |

**2) [10 points]** You've been hired by *Dreamers Anonymous* to write a Java console application that displays lyrics from the song *Climb Every Mountain* from The Sound of Music. Here are the lyrics:

Climb every mountain,

Search high and low,

Follow every byway,

Every path you know.

Climb every mountain,

Ford every stream,

Follow every rainbow,

'Till you find your dream.

A dream that will need

All the love you can give,

Every day of your life

For as long as you live.

Display the lyrics as shown here, including blank lines between paragraphs.

*[your program code here]\**

**If possible, format your code like this:**

**Font “Courier New”**

**Font size “9”**

**Bold**

*[your program output here]\*\**

**3) [11 points]** You've been hired by *Argument Aardvarks* to write a Java console application that handles program arguments. Pass the following values to the program:

Michigan

is

the

26th

state

Also pass the following Eclipse variables to the program:

${current\_date}

${project\_name}

${project\_path}

Access the args array to echo the arguments. Format the eight rows of output in two columns with a label in the first column and a value in the second column. Separate the columns using tab escape sequence(s).

*[your program code here]\**

**If possible, format your code like this:**

**Font “Courier New”**

**Font size “9”**

**Bold**

*[your program output here]\*\**

\* **Copying-and-pasting application code to a Word document**

1) From the program editor window, press **CTRL-A** and press **CTRL-C**.

2) From within the Word document, press **CTRL-V**.

\*\* **Copying-and-pasting application output to a Word document**

1) From the Eclipse main screen, maximize the Console window.

2) From the Console window, press **ALT-PrintScreen**.

3) From within the Word document, press **CTRL-V**.