

Mini Program 3 Instructions (NodeJs)

Wednesday, August 28, 2019 1:12 PM

Due Date: See My Grades for the due date

Estimated Time to Complete: < 3 hours

Objectives:

- Function creation
- Variable declaration
- Variable data value assignment
- Variable Arithmetic Operation
- Variable Type Conversion Operation

Required Materials:

A copy of Mini Program 2

Instructions:

At first it may look overwhelming, but if you do things in order as I have presented them, you will be just fine. I don't expect a fully perfect A+ result on the first try. Get as much done as you can. But I want you to take your time in each section.

★ **Start on this program AS SOON AS IT IS available! Waiting until Sunday will be disastrous!**

Take breaks between sections!

△ -- Divide and Conquer!!

Don't try to understand everything at once. You will get confused!! Ask as many questions as you can in the Yammer forum.

PRINT this instruction sheet and work it LINE BY LINE!

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☒ **Mark the checkboxes as you complete each section one at a time.**

💡 **I included an example in the assignment description for you review as you go along. NOT EVERYTHING is on the example so don't try to copy it word for word!**

Write by hand a program declaring, processing and assigning data values to variables.

You should build the program within the basic module template you created as a result of Mini Program 1. It is the same module template as described in the slide set Anatomy of a Console App. You should include the compiler directive 'use strict'. Use comments to describe each section in the program and should include your name and assignment information (an example is below). Comments are snippets of text that are ignored by the language compiler and will be discussed in detail later in the course. To add a comment, simply use a single quote ' followed by the text. Example:

```
//Δ - Submission Information
// [Fill in assignment information below this line]
// Name: _____
// Assignment/Purpose: _New Program Structure_
// Due Date: _____
// Version: __1__
```

Name the module in the following manner:

m<LastName><Firstname>MP3

Example: for Julia Anderson, her module will look like **mAndersonJuliaMP3**

☐ - Variable Declaration section:

- Add the items below the comment line:
[Type Procedure-Level variable DIM statements below this line]
- Several variable declarations are required with the following naming convention: <prefix><Your Initials> <variable Name>. The following table indicates the type and name. REMEMBER! Variable Declarations cannot have Spaces! Use *camel-case*.

Order	Type	Name	Function
1	String	First Name	Input
2	String	Last Name	Input
3	String	Middle Name	Input
4	Boolean	Gender	Input
*5	Number	Age	Processing
*6	String	Age	Processing
*7	String	Full Name	Input
*8	String	Output	Output

- Example: **Student Name - Julia Anderson**

Type	Name	Initials
String	Last Name	JA

- `var strJALastName;`



<https://uscupstate.techsmithrelay.com/VTxh>

☐ - Input Variable Data Value Assignment section:

- Add the items below the comment line [Type input variable assignment statements below this line]
- Start with the Variables 1 - 4 (only the items without the *asterisks!). Assign data values based on the result of the variable declaration section above. The data values will be based on your personal information.
- Example: Based on the example declaration in the last section: `var strJALastName;`
 - `strJALastName = "Anderson";`
 - finish the rest



<https://uscupstate.techsmithrelay.com/TGH1>

☐ - Arithmetic Operation and Processing section:

- Put this line under the commented section
[Type variable operations and processing statements below this line]
- Calculate your age and assign it to Variable *5 (Age) . Do a basic calculation of your age. A basic calculation is <current year> - <year you were born>
- Example: If Julia Anderson was born in 2000. Make use of the Module-Level constant numJACurrentYear
- `numJAAge = numJACurrentYear - 2000;`

☐ - Variable Type Conversion Operation and Processing section:

- Put this line under the numJAAge assignment statement above
- Convert numJAAge from a Integer to a String and assign it to variable *6 (Age) . Do a basic calculation of your age. A basic calculation is <current year> - <year you were born>
- Example: use the .toString() conversion method in numJAAge.
- `strJAAge = numJAAge.toString();`

☐ - Output Variable Assignment section:

- Put this line under the commented statement:
[Type variable output statements below this line]
- Assign the variable strAge *6 to the Output Variable *8 (Output) .
- Example: If Julia Anderson is 17.
- `strJAOutput = strJAAge;`

Scan the handwritten copy to a PDF or Word file and upload to the BB assignment. **DO NOT TAKE A PICTURE.** Use a document scanning program like Tiny Scanner (iPhone) or use the scanner/copiers on campus.

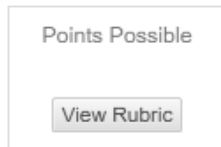
Submission Checklist:

- ☐ Scan the **handwritten copy** to an **PDF or Word** file
- ☐ Upload the **PDF or Word** file to BB

NOTE:

TURN IN *SOMETHING USEFUL* by the due date! You will NOT get credit for later revisions on late work. What I mean by useful is at the very least the structure of the module

There will be a **grading rubric** applied so that you can see how your grade will be influenced by various assessment factors and ultimately understand your mistakes--after which you may revise and resubmit for a better grade. The rubric is indicated by a box at the top of the blackboard assignment.



Rubric Example Icon

Subsequent attempts to LATE submissions will be ignored.