Author: Taylor Goodspeed

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Class: CSC 121

Assignment: lab03b

**Program test results**

calculation rules:

negative age: display error message.

0-1yr = infant

1-13 = child

13-20 = teenager

20-100 = adult

100+ = centenarian

'''

Code ‘if elif’ sample:

if age < 0:  # Catch if age is negative.

elif age >= 0 and age < 1:  # Test if age is between 0 and 1: Infant

elif age >= 1 and age < 13:  # Test if age is at least 1 but less than 13: Child

elif age >= 13 and age < 20:  # Test if age is at least 13 but less than 20: Teenager

elif age >= 20 and age < 100:  # Test if age is at least 20 but less than 100: Adult

else:  # Catch if age is 100 or more: centenarian.

|  |  |  |
| --- | --- | --- |
| **Input Age** | **Program Output** | **Correct?** |
| -1 | Error output: invalid age | Yes: Invalid age detected |
| 1 | Child. | Yes: age falls in test range |
| 8 | Child | Yes: age falls in test range |
| 12 | child | Yes: age falls in test range |
| 13 | teenager | Yes: age passes 1-13 range and into next test |
| 19 | teenager | Yes: age falls into test range |
| 20 | adult | Yes: in range |
| 52 | adult | Yes: in range |
| 100 | centenarian | Yes: caught by else statement. |

**First run results: incorrect due to poor logic for upper limit of age test. <= at upper limit is bad logic.**

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| --- | --- | --- |
| **~~Input Age~~** | **~~Program Output~~** | **~~Correct?~~** |
| ~~-1~~ | ~~ERROR: Age invalid~~ |  |
| ~~1~~ | ~~This person is an infant!~~ |  |
| ~~8~~ | ~~This person is a child!~~ |  |
| ~~12~~ | ~~This person is a child!~~ |  |
| ~~13~~ | ~~This person is a child!~~ |  |
| ~~19~~ | ~~This person is a teenager!~~ | **~~NO: Logic error discovered~~** |
| ~~20~~ | ~~This person is a teenager!~~ | ~~Yes: falls in 13-20 range~~ |
| ~~52~~ | ~~This person is an adult!~~ | ~~Yes: age is between 20-100 yr~~ |
| ~~100~~ | ~~This person is an adult!~~ | ~~Yes: age within 20-100 years~~ |
| ~~101 -added~~ | ~~This person is a centenarian!~~ | ~~Yes~~ |