CS005 Lab 2

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| Look at this program output.  I wrote a script called parents.m when I invoked it, it asked me some questions (how old is my Mom etc).  After I answered the questions, the program displayed some facts about my family. | Here is the script I wrote ( the left edge is truncatated,  this is deliberate, work out what it missing) |

**Part 1:**

Write a script just like my one above. However, your program should *also*

1) Tell me how old your Mom was when you were born.

2) Tell me how old your older parent was, when your younger parent was born.

3) Ask what year it is now, then tell us what year *you* were born (could be off by a year, because we are not considering days/months, that is fine).

Suppose that we asked “How old is your Dad?” and someone typed **55.7**. Fix it so that only integers (i.e. **55** ) will show up in Matlabs output (hint, the function you need was in the lecture 3 slides). Make is such that ALL output can only be integers.

**Part 2:**

A cigarette is 84mm long. There are 20 in a pack, they cost $6. Assume the computer user has smoked for a least a year. Assume that every year is 365 days long.

Write a new script that asks the user “*What year it is now, or what year did you stop smoking?*”*,* then asks what year he started smoking, then asks how many he smokes a day.

The script should then state:

The number of cigarettes you smoked is XXX

The number of cigarettes packs you smoked is YYY (round to a whole number, EK)

If all the cigarettes you smoked were laid end to end, they would stretch for this many miles ZZZ

They amount of money you spent on cigarettes (in dollars) was AAA

**Part 3:**

Write a script that asks the user their height in inches, then their weight in pounds, and then tells them their BMI.

**Part 4:**

Matlab has builtin function that returns pi.

Write a script that ask for the major axis of an ellipse (a), then asks for minor axis of the ellipse, then tells the use the area and circumference of that ellipse

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Make sure all your code is commented.

Make sure to use meaningful variable names