Lab 3.5 Dict

Types

1. look at this code and answer the questions below, answers at the end of the lab sheet

```
numberOfQuestions = 5
averageAge = 23.4
debugMode = True
name = "joe"
ages = []
months = ('Jan', 'Feb', 'Mar')
book = {}
stuff = [ 12 , 'Fred', False, {}]
someone = dict(firstname = "joe")
me = {
    "firstName" : "Andrew",
    "teaching" : [{
        "courseName" : "programming",
        "semester" : 1
    },{
        "courseName" : "Data Representation",
        "semester" : 2
    }
    ]
}
```

What are the variable types of the following variables in the code above

```
numberOfQuestions
(a)
(b)
    averageAge
(c) debugMode
(d)
    name
(e) ages
(f) months
(g)
    months[1]
(h)
    book
(i)
    stuff
(i) stuff[2]
(k)
    someone
    someone["firstname"]
(1)
(m)
    me
    me["teaching"]
(n)
    me["teaching"][0]["semester"]
(\circ)
p is a trick question look at it carefully
    me["teaching"][0]["coursename"]
```

 Write a program that stores a student name and a list of her courses and grades in a dict, the program should then print out her data.
 The number of course she has could change.
 We can hard code the values in this dict for this example

```
Student: Mary
Programming : 45
History : 99
```

Answer

Extra (I don't give the answer to)

Do the problem sheet assignment

Answers to Question 1

- a. int
- b. float
- c. boolean
- d. str
- e. array
- f. tuple
- g. str
- h. dict
- i. array
- j. boolean (False)
- k. dict
- l. str
- m. dict
- n. array (is is nested in the dict)
- o int
- p. undefined (the code has a capital N in courseName)