

## Lecture 5 questions

(These exercises are taken from chapter 3 in Dierbach. Page 120.)

**P1.** Write a Python program in which the user enters either 'A', 'B', or 'C'. If 'A' is entered, the program should display the word 'Apple'; if 'B' is entered, it displays 'Banana'; and if 'C' is entered, it displays 'Coconut'. Use nested if statements for this as depicted in Figure 3-13.

**P2.** Repeat question P1 using an if statement with elif headers instead.

**P3.** Write a Python program in which a student enters the number of college credits earned. If the number of credits is greater than 90, 'Senior Status' is displayed; if greater than 60, 'Junior Status' is displayed; if greater than 30, 'Sophomore Status' is displayed; else, 'Freshman Status' is displayed.

**Q1.** Write a Python program in which an investor enters two numbers (floats). One is called "rsi" and the other is called "momentum". Both numbers should contain a value between 0 and 100. If "rsi" and "momentum" are both above 70, then the program should display "Buy the stock!". If both numbers are below 30, then the program should display "Sell the stock!". Else, the program should display "Hold your position."