

Carnegie Mellon University in Qatar

Principles of Computing

15-110 - Fall 2018

Lab 3

1. A certain CS professor gives 100-point exams that are graded on the following scale:

- 90-100: A
- 80-89: B
- 70-79: C
- 60-69: D
- <60: F

Write a program that accepts an exam score as input and uses a decision structure to calculate the corresponding grade.

2. A certain college classifies students according to credits earned. A student with less than 7 credits is a Freshman. At least 7 credits are required to be a Sophomore, 16 to be a Junior and 26 to be classified as a Senior. Write a program that calculates class standing from the number of credits earned.
3. A babysitter charges \$2.5 an hour until 9:00PM when the rate drops to \$1.75 an hour (the children are in bed). Write a program that accepts a starting time and ending time (in hours and minutes) and calculates the total babysitting bill. You may assume that the starting and ending times are in a single 24-hour period.