Q1: Write a PERL script using standard input to calculate life expectancy. Assume that the average life expectancy is 70 and then adjust thisaccording to the following recorded variables:

* Are you male or female? Females get an extra 4 years.
* Are you a smoker?  Add 5 yearsif not, subtract 5 years if you are.
* How often (per week) do you exercise? Subtract 3 years if never, addone year for each exercise session.
* How many units of alcohol do you drink per week?  Remove 0.5 year for every unit over 7.  Gain 2 years if teetotal.
* Do you eat fatty food?  Add 3 years if not.

Calculate the life expectancy of a male non-smoker who exercisestwice a week, drinks 10 units of alcohol a week and eats fatty food.

Q2: Write a PERL script to check passwords. The input will come from thecommand line, which records the username, old password and new password. Therules are that a password is OK if it is >7 characters long, contains someuppercase characters and is different to the old password. The admin user(username ‘admin’) can do whatever they like. Print out whether the newpassword is OK.

Q3: Make a hash of one letter amino acids codes (keys) to their molecular weight (values) using PERL.  Print out a list of all of the amino acids sorted bytheir molecular weights (heaviest to lightest). Find the sequence for mouse lysozyme protein and work out its molecular weight.