Task 1

1: First initialize the variables, which are the three sides of the triangle we will be calculating.

2: Second, prompt the user with a cin statement to enter the length of the sides of the triangle.

3: Make the user’s inputs equal to the corresponding sides of the triangle.

4: If any two sides added together individually squared are equal to the third angle squared then print to the screen “This is a right triangle”, and if none are true then print “This is not a right triangle”.

Task 2

1: Declare the variables we will be using; these are the hours the car is parked and the payment amount.

2: Prompt the user to enter the number of hours parked in their spot.

3: Assign their entrance to the variable it corresponds to.

4: If the user was parked for less than or equal to three hours, then their fee is 5 dollars.

5: Otherwise, if the parking hours are greater than three but less than nine, the parking fee is 6 times the integer value of the fee plus one.

6: Otherwise, if it is between nine and 24 the fee is 60 dollars.

7: Output the parking fee to the user.

Task 3

1: Start by declaring the variables again, this time they are our grade.

2: You then must ask the user to enter their letter grade.

3: Next is to assign the grade variable to their entrance.

4: Next use a structure called switch to read through the user’s grade.

5: If it is A output a good job, if it is B or C output a good job, otherwise if it is D or F output not good, go study.

6: Lastly, if the user inputs a character not listed, say that it is not an applicable grade.