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Reflection

* Objective:
  + What were you supposed to learn/accomplish?

In this lab we were told to calculate the distance traveled by a ski jumper based on speed, and to determine how many points the ski jumper would receive if they went that distance.

* Procedure:
  + What steps were followed and what techniques did you use to solve the problem?

1. First, we created the algorithm to make sure we had an idea of how we wanted to program to behave.
2. Then we drew up a flowchart so that we could easily visualize the control paths of the program.
3. Then we created the test cases so we could have an idea of how the calculations of the program would go.
4. Then we began creating the code for the program.
   * What were the Key concepts explored?

Key concepts explored in this lab were using the math module, following usability rules for input and output, and creating a flowchart.

* Results:
  + Did your results match what you expected to get?

The results of the test cases lined up with the results from testing the code, so I would say yes.

* + Did you try using various test cases, or extreme test cases?

We mostly used various test cases of about normal range, there were not many extreme test cases.

* Reflection:
  + What challenges did you encounter?

Debugging the code and creating the flowchart were definitely tricky processes.

* + How did you follow the first 3 rules of programming?

We thought about what we wanted the program to achieve and how we’d accomplish that, then we made the program readable by including comments and making the variable names descriptive, and we practiced with the test cases beforehand so we would be certain the calculations would function properly.

* + Did you overcome them, and how?

We overcame the issues by trying again and keeping at debugging.

* + Any key takeaways?

A flowchart really is a valuable tool for reference while coding the program.

* + Do you think you learned what you were supposed to learn for this lab?

I do think that I better understand how to use the math module after completing this lab.

* + What was it like working with your partner?

Harry was very keen about not missing any details. He was adamant that we made sure the algorithm, test cases and program were as good as we could make them.