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Reflection:

Objective: I learned how to create a program using math calculations, create different decisions for different situations, and tested the different outputs and inputs of the code.

Procedure: In the program I had to gather the input from the user first then I would be able to use the information to process my calculations and finally I was able to output the results of my calculations

Results: Yes I was able to get what I expected based on the inputs and results. I tried to input a different hill type that wasn't recorded in the instructions which made me repeat the hill type. I tired to input a negative integer for the speed which is impossible so the code would make me repeat my input. Lastly if the user input a speed that would cause the point system to go below 0 the point system would output they didn't gain any points.

Reflection: When I was making the algorithm I spotted some possible problems that would cause my code to fail but there were also some other problems that I wasn't able to indicate or notice until I started writing the code. I designed the algorithm to make a certain path for my code that I would have to follow and keep track so I won't miss anything important. Then I created the test cases to predict my outputs. Finally, I coded the program and ran through my test cases. There were some problems when I was coding the code including the extra decimal points after the hundredth, if user inputs a different hill type, if user imputed a lower value than 0, and if user got negative amount of points. I learn a lot decision making and problem solving in this project. Working with my partner was fairly simple and easygoing because we basically had the same idea in mind.