## Write algorithm for Lab1 here.

## Remember to follow the rules of what makes a good algorithm from Notes #2.

Algorithm

Step 1: Import math to code.

Step 2: Ask user to input a hill type.

Step 3: Use an “if” statement to set constants height, points per meter, and par for the two hill types: Normal and Large.

* If = “normal”:
  + Height is 46, PPM is 2, and par is 90.
* Else If = “large”:
  + Height is 70, PPM is 1.8, and par is 120
* Else if = neither of the two above:
  + Repeat until it is either normal or large.

Step 4: Ask user to input the speed the jumper is going.

Step 5: Calculate the time in air using the height and assign the value.

Step 6: Calculate the distance of the jumper using jumper speed and time in air and assign the value.

Step 7: Use the distance and par to calculate the overall points and assign the value.

Step 8: Output the result of the points earned. The output will change depending on the value of points.

* If points are greater than 61:
  + output “Great job for doing better than par!”.
* If points are less than or equal to 10:
  + output “What happened?”.
* Else:
  + code should output “Sorry you didn’t go very far.”

Step 9: Code should output their final distance and final points.

Step 10: End program.

A diagram of a flowchart

Description automatically generated