**Documentation**

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# **Task overview**

## I have been provided a topic named “Projectile Motion Calculator” which calculates the projectile motion of any object by taking velocity, angle and time inputs from the user.

The "Projectile Motion Calculator” is a specialized tool designed to analyze and compute the motion of an object projected into the air, commonly referred to as projectile motion. This tool operates by taking three key inputs from the user:

**Initial Velocity (v):** The speed at which the object is projected into the air. It is a crucial parameter as it influences the distance the projectile will travel and the height it will reach.

**Launch Angle (θ)**: The angle at which the object is projected relative to the horizontal. This angle affects the trajectory and range of the projectile. For example, a 45-degree angle typically provides the maximum range.

**Time (t)**: The duration for which the projectile is in motion. This input is used to calculate various aspects of the projectile’s flight, such as the distance traveled at any given time.

**Errors I faced while creating the program**

I am new to c language, my core language is python, our college perfer python as main language, so I faced some difficulties in the syntax while creating the code for projectile motion program.

The main problems I faced are regarding the syntax, as from python knowledge, it’s not so easy to shift to C language, but I tried my best to get the desired output..

Logic building is the same on all languages, just the difference in the syntax, but practicing in C will get me prefection in C.

Took help from chatgpt for reference for the syntax and then understood the code.

**Reason for not creating the GPB circuit**

I belong from core software branch, and I am very new to electronics and it was so tough for me to create the circuit, tried Google, YouTube too, but haven’t got the desired output after trying the same for many hours.. practicing it would make me a little good in the same.