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**Acknowledgement**

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Synopsis

This program calculates the various parameters of projectile motion – maximum range, time of flight, maximum height reached by the projectile and the optimal angle for launching the projectile. It also determines the initial parameters for the projectile – the initial velocity and angle of launch for a required Range. The results can be stored in a file and also be displayed.

The user is given an option of either providing the initial velocity and the launch angle or provide the maximum range for the projectile.

The program is written in C++ using coding constructs that were studied in the curriculum like classes, user defined functions, data file handling , math library functions etc have been used. The code has been written in a modular fashion and we have also used a coding style that makes the code as self explanatory as possible. This we believe would help in easily understanding and enhancing the code functionality in future.









