

## **Computational Physics 1**

Q1) For this question, the trajectory of a falling ball was plotted. All parameters (acceleration, velocity and height) are shown with the progression of time. Example calculations were also done and verified manually.

Q2) For this question, for the parameter height, both numerical and analytical solutions were calculated and plotted. The error between these 2 solutions is also shown. Similarly to the 1st question, example calculations were done and verified manually as well.

Run the code provided to obtain pdfs of the plots done.