**Lab 1**

**Lab Task:**

**Program Name:** Subject Percentage Calculator

**Purpose:** To learn the use of different arithmetic operators

**Problem Statement:** Write a program which provides total and obtained marks of a student in 3 subjects (say FCP, Math and EE). The program then displays the percentage of marks in each subject and also displays overall percentage.

**Sample Output:**

Shape, rectangle

Description automatically generated

**Home Task:**

1. **Given 3 numbers, Your program should find their average.**

*Input 3 numbers a, b, c*

*Let Sum = a+b+c*

*Let avearge = Sum/3*

*Display average*

1. **Given distance and time, your program should Find velocity.**

*Input Distance and Time*

*Calculate Velocity*

*Velocity = distance / time*

*Display Velocity*

1. **Given initial velocity, acceleration and time, your program should Find final velocity according to Newton’s first law of Motion. Vf = Vi + a\*t;**

*Get initial velocity, acceleration and time*

*Find final velocity using formula*

*Vf = Vi + a\*t*

*Display velocity*

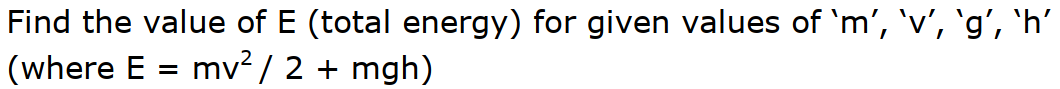
1. **Given initial velocity, acceleration and time, your program should Find the distance covered according to Newton’s second law of Motion. S = Vi\*t + 0.5\*a\*t2**

*Get initial velocity, acceleration and time*

*Find distance using formula*

*S = Vi\*t + 0.5\*a\*t2*

*Display Distance*



Get

*Get m, v, g and h*

*Calculate Total Energy (E) using Formula:*

*E = mv2/2 + mgh*

*Display total Energy E*