

Lab1 description:

Prerequisites:

- Arithmetic operators are already discussed in the lectures.
- "Address of" operator is already discussed in the lecture.
- Logical operators are discussed in the lecture.

Examples objectives:

- Understanding the use input output expressions (scanf and printf).

Assignments:

- 1- (Final Velocity) Write a program than asks the user to enter the initial velocity and acceleration of an object, and the time that has elapsed, places them in the variables u, a, and t, and prints the final velocity, v, and distance traversed, s, using the following equations.

a) $v = u + at$

b) $s = ut + \frac{1}{2}at^2$

- 2- Write a program that inputs three different integers from the keyboard, then prints the sum, the average, the product, the smallest and the largest of these numbers. Use only the operators you have learned without if statement. The screen dialogue should appear as follows:

```
Enter three different integers: 13 27 14
Sum is 54
Average is 18
Product is 4914
Smallest is 13
Largest is 27
```

- 3- Write a program that asks the user to enter the total time elapsed, in seconds, since an event and converts the time to hours, minutes and seconds. The time should be displayed as hours:minutes:seconds.