

## Lab 2 – Group A

1. Write a program to ask user for values, x, y, z (integer), and rotate their values such that x has the value of y, y has the value of z and z has the value of x.

Inputs,

Enter X: 5

Enter Y: 6

Enter Z: 8

Output

Your inputs,

X = 5 , Y = 6, Z = 8

After rotation,

X = 6, Y = 8, Z = 5

Note: don't use more than 4 variables.

2. The total distance travelled by a vehicle in t seconds is given by

$$\text{distance} = ut + (at^2)/2$$

Where u is the initial velocity, a is the acceleration.

Write a program to evaluate the distance travelled at regular intervals of time, given the values of u and a. The program should provide the flexibility to the user to select his own time intervals and repeat the calculations for different values u and a.

3. Write a program to print the size of various data types in C.

Hint: use sizeof() function.

4. Write a program to read a four-digit integer and print the sum of the digits.

Hint: use / and % operator

To use loop, use this structure

```
while (i<4){  
    /* write your logics here to get sum of 4 digits */  
    /* increment value of i by 1 */  
}
```