Practical Lab 02

1. Write a C program that takes two integer values as input from the user. Then swap the values taken from the user and display the output of the variables.

```
#include<stdio.hd
#include<conio.hb
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#include<conio.hb
#include</pre>

#Include

#Include
```

2. A customer asks the IT firm to develop a program in C language, which can take tax rate and salary from the user on runtime and then calculate the tax the user has to pay and the salary he/she will have after paying the tax. This information is then provided to the user.

```
#include<stdio.h>
#include<conio.h>
#include<conio.h>
int main()
{
    float salary, tax_paid, salary_left, tax_rate;
    printf("Enter the Salary: ");
    scanf("%f", &salary);

    printf("\nEnter Tax Rate: ");
    scanf("%f", &tax_rate);

    tax_paid= salary*tax_rate;
    salary_left = salary-tax_paid;

    printf("\nTax Paid: %.1f", tax_paid);
    printf("\nSalary after Tax : %.1f", salary_left);

    getch();
}
```

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3. Explain the output of this C program. Why is the wrong value being displayed in the output?

The output is displaying the wrong value because variables do not start with numbers. Also in variable declaration no value is assigned.

4. Construct a C program with the flowchart below. The input value of the Principle must be between 100 Rs. To 1,000,000 Rs. The Rate of interest must be between 5% to 10% and Time Period must be between 1 to 10 years. Hint: these restrictions can be displayed in the form of a message on the window.

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int principal_amt, time_period;
    float rate, simple_interest;
    printf("Enter the Principal Amount between 100-1000000:");
    scanf("%d", &principal_amt);
    printf("\nEnter the Interest Rate between 0.05-0.10:");
    scanf("%f", &rate);
    printf("\nEnter the Time Period between 1-10 years:");
    scanf("%d", &time_period);
    simple_interest = principal_amt * rate * time_period;
    printf("\nSimple Interest: %.2f", simple_interest);
    getch();
}

Enter the Principal Amount between 100-1000000:1000
Enter the Interest Rate between 0.05-0.10:0.06
Enter the Time Period between 1-10 years:5
Simple Interest: 300.00
```

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