Assignment 7

Code 1

```c
/*Write a program to enter user ID and password using nested switch.
If the user enters correct ID and password, display the message "Welcome
ID",
otherwise give the message incorrect "user ID or password".*/

#include <stdio.h>

int main()
{
    int id,pass;

    printf("Please Enter your ID : ");
    scanf("%d",&id);
    printf("Please Enter your Password : ");
    scanf("%d",&pass);

    switch(id)
    {
        case 101:
        switch(pass)
        {
            case 602:
            printf("Welcome 101");
            break;

            default:
            printf("Incorrect User ID or Password");
            break;
        }
        break;

        case 102:
        switch(pass)
        {
            case 880:
            printf("Welcome 102");
            break;

            default:
```

```c
        printf("Incorrect User ID or Password");
        break;
    }
    break;

    case 103:
    switch(pass)
    {
        case 280:
        printf("Welcome 103");
        break;

        default:
        printf("Incorrect User ID or Password");
        break;
    }
    break;

    case 104:
    switch(pass)
    {
        case 522:
        printf("Welcome 104");
        break;

        default:
        printf("Incorrect User ID or Password");
        break;
    }
    break;

    case 105:
    switch(pass)
    {
        case 661:
        printf("Welcome 105");
        break;

        default:
        printf("Incorrect User ID or Password");
        break;
    }
    break;
```

```
    }

    return 0;
}
```

Output

```
Please Enter your ID : 101
Please Enter your Password : 602
Welcome 101

...Program finished with exit code 0
Press ENTER to exit console.
```

Code 2

```c
//Write a C program to input basic salary of an employee and calculate its
Gross salary according to following:
//Basic Salary <= 10000 : HRA = 20%, DA = 80%
//Basic Salary <= 20000 : HRA = 25%, DA = 90%
//Basic Salary > 20000 : HRA = 30%, DA = 95%

#include <stdio.h>

int main()
{
    float basic,gross,da,hra;

    printf("Enter Basic Salary of an Employee : ");
    scanf("%f",&basic);

    if (basic<=10000)
    {
        da=basic*0.8;
        hra=basic*0.2;
    }

    else if (basic<=20000)
    {
        da=basic*0.9;
        hra=basic*0.25;
    }

    else
    {
        da=basic*0.95;
        hra=basic*0.3;
    }

    gross = basic + hra + da;
    printf("Gross Salary of Employee : %.2f",gross);

    return 0;
}
```

Output

```
Enter Basic Salary of an Employee : 30000
Gross Salary of Employee : 67500.00

...Program finished with exit code 0
Press ENTER to exit console.
```