# Assignment 2

1) Find the price of item when discount is given (specify different discount based on price)

```c
#include<stdio.h>
void main()
{
        int dis;
        int b;
        int a=5000;
        if(a>=10000)
        {
                dis=1000;
                b=a-dis;
         printf("Total Bill %d",b);
        }
        else if (a>=7000)
        {
           dis=500;
           b=a-dis;
         printf("Total Bill %d",b);

        }
        else if(a>=6500)
        {
                dis=300;
                b=a-dis;
         printf("Total Bill  %d",b);
        }
        else if(a>=4500)
         {
                dis=200;
                b=a-dis;
         printf("Total bill = %d",b);
         }
        else
        {
```
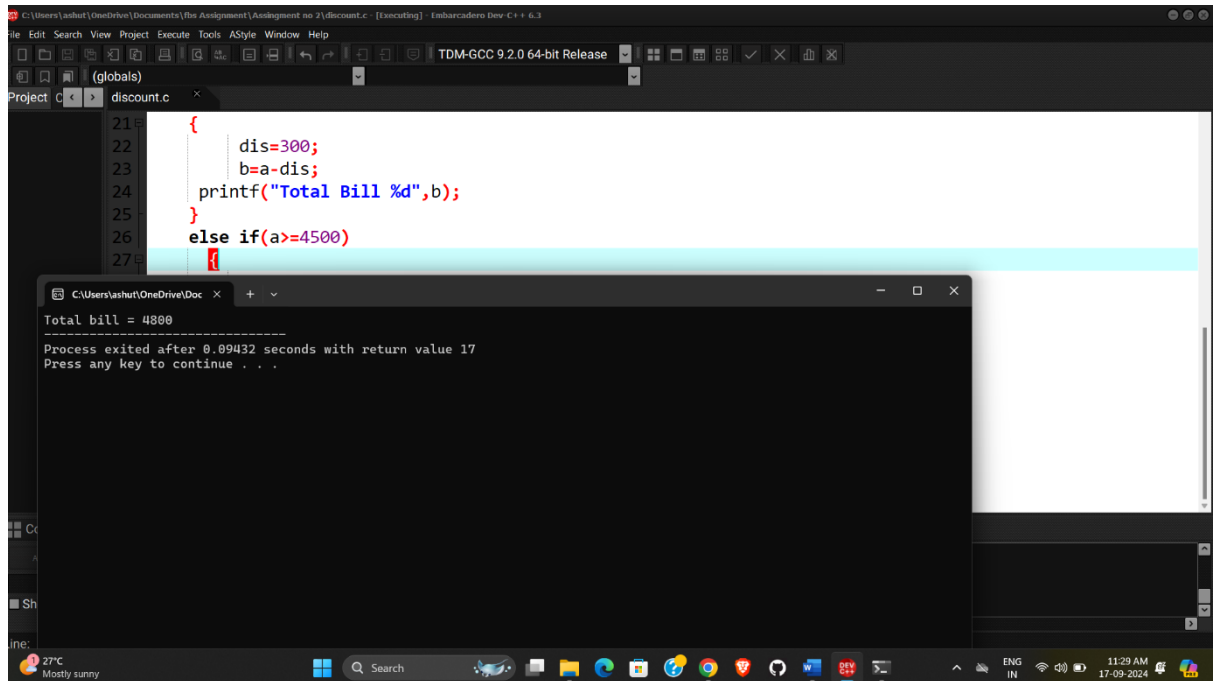
```
            printf("we do not give you discount");
        }


    }
```



---

2 )Write a program to find greatest of three numbers using nested if-else.

#include<stdio.h>

void main ()

{

     int a,b,c;

     a=24;b=55,c=84;

     if(a>b&&a>c){

          printf("a ia greater than others");

     }

     else if (b>c) {

          printf("b is greter than others");

```
        }

        else

          printf("c ia greter than others");

}
```



----------------------------------------------------------------------------------------------------

**3 )  Accept two numbers from user and an operator (+,-,/,*,%) based on that perform the desired operations.**

```
#include<stdio.h>

void main()

{

        int num1,num2;

        char opreter;

        printf("Enter Frist no = ");

        scanf( "%d",&num1);

        printf("Enter a second no = ");

        scanf( "%d",&num2);
```

```c
printf("Enter the opreter (+,-,*,/,%) =   ");
scanf(" %c",&opreter);



if(opreter=='+')
{
        printf("result = %d",num1+num2);
}
else if(opreter=='-')
{
        printf("result = %d" , num1-num2);
}
else if(opreter=='*')
{
        printf("result = %d" , num1*num2);
}
else if(opreter=='/')
{
        if(num2!=0){
                printf("result = %d" , num1/num2);
        }
        else{
                printf("you put wrong no");
        }
}
else if(opreter=='%')
```

```
            {

                    if(num2!=0){

                            printf("result = %d" , num1%num2);

                    }

                    else{

                            printf("you put wrong no");

                    }

            }

            else

            {printf("invalid data");

        }

    }
```

**4)Display a menu to the user (like 1.Even Odd 2. Basic salary etc), ask the user to enter his choice, then based on that perform the desired operations.**

```c
#include<stdio.h>
void main(){
        int con,no;
        int sal,da,ta,hra;
 printf("Enter choise \n cheek no press 1 \n cheek salary press 2 \n which
is your task =  ");
 scanf("%d",& con);
 //printf(" you are enter = %d" , con);

 if(con==1)

 {

 printf("enter a no = ");
 scanf("%d",& no);
  {

    if(no%2==0)
      {
        printf("your digit is even");
                }
          else if (no%2!=0)
          {
          printf(" your digit is odd");
          }


  }
}
   if(con==2)
        {
                printf("enter a basic salary =  ");
                scanf("%d",& sal);
                if(sal>=25000)
                {
```

```c
        da=sal*10/100;
    ta=sal*20/100;
    hra=sal*25/100;
    printf("yor da is = %d\n your ta is = %d\n your hra is =
%d",da,ta,hra);
        int totalsa=sal+da+ta+hra;
    printf("\nyour total salary is =%d",totalsa);
        }
        else if(sal>=15000 && sal< 25000)
        {
            da=sal*15/100;
    ta=sal*25/100;
    hra=sal*30/100;
    printf("yor da is = %d\n your ta is = %d\n your hra is =
%d",da,ta,hra);
        int totalsa=sal+da+ta+hra;
    printf("\nyour total salary is =%d",totalsa);
            }
        else{
            printf("you are not get da,ta,hra");
        }
 }


}
```

5) Accept the price from user. Ask the user if he is a student (user may say yes or no). If he is a student and he has purchased more than 500 than discount is 20% otherwise discount is 10%. But if he is not a student then if he has purchased more than 600 discount is 15% otherwise there is not discount.

```
#include <stdio.h>

void main() {

    int num;

  int respons;

    printf("Enter the rate = ");

    scanf("%d",& num);

    printf(" are you a student then press (1) \n are you not  a student then press (2)\n Enter your role = ");

    scanf("%d",& respons);


    if(respons==1)

    {
```

```c
        if (num>=500)
        {
                printf("you have 20 %% discount");

        }
    else
      {
        printf("you have 10 %% discount");


         }
}


else if(respons==2)
 {


    if (num>=600)
   {
           printf("you have 15 %% discount");


           }
           else {
                   printf("you have no discount");
           }
 }
else
{
```

printf("invalid syntax");

      }

  }



----------------------------------------------------------------------------------------