```c
/*

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

*/


void main()
{
        int price;
        int cost;
        printf("enter the cost=");
        scanf("%d",&cost);
        int disc;
        printf("enter the discount(5%,10%,15%,20%)=");
        scanf("%d",&disc);

        if(cost>0)
        {
                if(disc==5)
                {
                        price=cost-cost*0.05;
                        printf("price=%d",price);
                }
                else if(disc==10)
                {
                        price=cost-cost*0.10;
                        printf("price=%d",price);
                }
                else if(disc==15)
                {
                        price=cost-cost*0.15;
                        printf("price=%d",price);
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                }

                else if(disc==20)

                {

                        price=cost-cost*0.20;

                        printf("price=%d",price);

                }

                else

                printf("please enter valid discount");


        }

}


/*

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

*/


void main()

{

        int a,b,c;

        printf("enter three numbers=");

        scanf("%d %d %d",&a,&b,&c);


        if(a>b)

        {

                if(a>c)

                printf("%d is greater",a);

                else

                printf("%d is greater",c);

        }

        else
```

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        if(b>c)

        printf("%d is greater",b);

        else

        printf("%d is greater",c);

}


/*

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

perform the desiredoperations

*/


void main()

{

        printf("enter the operator=");

        char op;

        scanf("%c",&op);


        printf("enter two numbers=");

        int a,b;

        scanf("%d %d",&a,&b);


        if(op=='+'||op=='-'||op=='*'||op=='%'||op=='/')

        {

                if(op=='+')

                printf("a+bs=%d",a+b);


                if(op=='-')

                printf("a-b=%d",a-b);


                if(op=='/')

                printf("a/b=%d",a/b);
```

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            if(op=='*')

            printf("a*b=%d",a*b);


            if(op=='%')

            printf("a '%'b=%d",a%b);


    }

    else

    printf("invalid operator");

}
```

/*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()

{

        printf("enter your choice\n 1.Even Odd \n 2.Basic salary\n");

        int choice;

        scanf("%d",&choice);


        if(choice==1)

        {

            int a;

        printf("enter the number=");

        scanf("%d",&a);


        if(a%2==0)

        printf("%d is even",a);
```

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        else
        printf("%d if odd",a);


        }
        else if(choice==2)
        {
                int basic;
        printf("enter the basic=");
        scanf("%d",&basic);


        float da,ta,hra,totalA,totalSallary;


        if(basic<=5000)
        {
                da=0.1;
                ta=0.2;
                hra=0.25;
                totalA=basic*(da+ta+hra);
                totalSallary=totalA+basic;
        }
        else
        {
                da=0.15;
                ta=0.25;
                hra=0.3;
                totalA=basic*(da+ta+hra);
                totalSallary=totalA+basic;
        }
        printf("total sallary=%.2f",totalSallary);
        }
```

}

/*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*/

```c
void main()
{
        int price;
        char c;
        printf("enter 's' for student:");
        scanf("%c",&c);
        printf("enter price=");
        scanf("%d",&price);
        int disc;

        if(c=='s')
        {
                if(price>=500)
                {
                        disc=20;
                        printf("%d percent discount",disc);

                }
                else
                {
                disc=10;
                printf("%d percent discount",disc);
        }
```

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        }
        else if(price>=600)
        {
        disc=15;
        printf("%d percent discount",disc);
    }
        else
        printf("no discount");
}
```