

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

```
#include<stdio.h>
void main()
{
    float price, discount, discountedprice;
    printf("Enter price of product: ");
    scanf("%f",&price);
    if(price >= 5000)
    {
        if(price == 5000)
        {
            discount = (price/100)*4;
            discountedprice = price - discount;
            printf("Final price after discount is %f",discountedprice);
        }
        else if(price > 5000 && price <= 10000)
        {
            discount = (price/100)*6;
            discountedprice = price - discount;
            printf("Final price after discount is %f",discountedprice);
        }
        else if(price > 10000 && price <= 15000)
        {
            discount = (price/100)*8;
            discountedprice = price - discount;
            printf("Final price after discount is %f",discountedprice);
        }
        else if(price > 15000)
        {
            discount = (price/100)*10;
            discountedprice = price - discount;
            printf("Final price after discount is %f",discountedprice);
        }
    }
    else
    {
        printf("Purchase is not applicable for discount");
    }
}
```

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

```
#include<stdio.h>
void main()
{
    int num1, num2, num3;
    printf("Enter First number: ");
```

```

scanf("%d",&num1);
printf("Enter Second number: ");
scanf("%d",&num2);
printf("Enter Third number: ");
scanf("%d",&num3);

if(num1,num2,num3>=0)
{
if(num1>num2 && num1>num3)
{
printf("First number is greatest");
}
if(num2>num1 && num2>num3)
{
printf("Second number is greatest");
}

if(num3>num1 && num3>num1)
{
printf("Third number is greatest");
}

}
}

```

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

```

#include<stdio.h>
void main()
{
int num1, num2, a, b, c;
int sum= 0;
int choice;
printf("Enter First Number: ");
scanf("%d",&num1);
printf("Enter Second Number: ");
scanf("%d",&num2);
printf("Enter choice: ");
scanf("%d",&choice);
if(a>=0)
{
if(choice==1)
{
c=num1+num2;
printf("sum of numbers are %d",c);
}
}
}

```

```

        if(choice==2)
        {
            c=a-b;
            printf("subtraction of numbers are %d",c);
        }
        if(choice==3)
        {
            c=a*b;
            printf("multi of numbers are %d",c);
        }
        if(choice==4)
        {
            c=a/b;
            printf("division of numbers are %d",c);
        }
        if(choice==5)
        {
            c=a%b;
            printf("mod of numbers are %d",c);
        }
    }
    else
    {
        printf("Enter valid choice");
    }
}

```

- 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.**

```

#include<stdio.h>
void main()
{
    int choice;
    printf("Enter choice 1 or 2: ");
    scanf("%d",&choice);
    if(choice == 1)
    {
        int num;
        printf("Enter number: ");
        scanf("%d",&num);
        if(num % 2 == 0)
        {
            printf("%d is even",num);
        }
        else
        {

```

```

        printf("%d is odd",num);
    }
}
else if(choice==2)
{
    int basic;
    int da, ta, hra, tsalary;
    printf("Enter salary: ");
    scanf("%d",&basic);
    if(basic <= 5000)
    {
        da = basic*0.10;
        ta = basic*20;
        hra = basic*25;
        tsalary = basic + da + ta + hra;
        printf("Total salary is %d", tsalary);
    }
    else
    {
        da = basic*0.15;
        ta = basic*0.25;
        hra = basic*0.30;
        tsalary = basic + da + ta + hra;
        printf("Total salary is %d", tsalary);
    }
}
}

```

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 then 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()
{
    char choice;
    printf("Are you a student Yes(y) or no(n): ");
    scanf("%c",&choice);
    float purchase, discount, finalprice;
    printf("Enter the purchase price: ");
    scanf("%f",&purchase);
    if(choice=='y')
    {
        if(purchase>500)
        {
            discount=800*20/100;
            printf("Discount price: %f\n",discount);
            finalprice=purchase-discount;

```

```

        printf("final price=%f",finalprice);
    }
    else
    {
        discount=800*10/100;
        printf("Discount price: %f\n",discount);
        finalprice=purchase-discount;
        printf("final price=%f",finalprice);
    }
}
else
{
    if(choice=='n')
    {
        if(purchase>600)
        {
            discount=800*15/100;
            printf("Discount price: %f\n",discount);
            finalprice=purchase-discount;
            printf("final price=%f",finalprice);
        }
        else
        {
            printf("There is ni discount");
        }
    }
}
}

```