

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

*/

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    float bill;
```

```
    float discount;
```

```
    printf("Enter the bill Amount");
```

```
    scanf("%f",&bill);
```

```
    printf("Enter the Discount Percentage");
```

```
    scanf("%f",&discount);
```

```
    if(discount==10)
```

```
    {
```

```
        if(discount==20){
```

```
            float afterdis = bill - (bill * 10 / 100);
```

```
            printf("After add %f discount on %f price is: %f",bill, discount,afterdis);
```

```
        }
```

```
    } else {
```

```
        printf("Sorry No more discount");
```

```
    }
```

```
}
```

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

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int a,b,c;
```

```
    printf("Enter the three Number");
```

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

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

```

        printf("Largest %d",a);
    } else if(b>a && b>c){
        printf("Largest %d",b);
    } else {
        printf("Largest %d",c);
    }
    return 0;
}

```

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

*/

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
    int a, b;
```

```
    char op;
```

```
    printf("Enter the two numbers: ");
```

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

```
    printf("Enter the operator: ");
```

```
    scanf(" %c", &op);
```

```
    if(op=='+'){
```

```
        printf("Addition %d",a+b);
```

```
    } else if(op=='-'){
```

```
        printf("Subtraction %d",a-b);
```

```
    } else if(op=='*'){
```

```
        printf("Multiplication %d",a*b);
```

```
    } else if(op=='/'){
```

```
        if((a%0==0)&&(b%0==0)){
```

```

        printf("Sorry I won't be divide by zero");
    } else {
        printf("Division %d",a/b);
    }
} else {
    printf("Wrong 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>
int main()
{
    int number,option;
    printf("Enter the Number");
    scanf("%d",&number);

    printf("Enter the Option");
    scanf("%d",&option);

    if(option==1)
    {
        number%2==0 ? printf("is a Even"):printf("is a Odd");
    }
    else if(option==2)
    {
        int da, ha, ta, hra, total;
        if(number<=5000){
            da=number*10/100;
            ta=number*20/100;

```

```

        hra=number*25/100;
    }
    else
    {
        da=number*15/100;
        ta=number*25/100;
        hra=number*30/100;
    }
    total=da+ta+hra;
    printf("The Basic Salary of %d da %d, ta %d, hra %d",total,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 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>

int main() {
    double price, discount = 0.0, finalprice;
    char student;

    printf("Enter the price amount: ");
    scanf("%lf", &price);

    printf("Are you a student? (Y/N): ");
    scanf(" %c", &student);

    if (student == 'Y' || student == 'y') {
        if (price > 500) {

```

```
        discount = 20.0;
    } else {
        discount = 10.0;
    }
} else if (student == 'N' || student == 'n') {
    if (price > 600) {
        discount = 15.0;
    } else {
        printf("No Discount\n");
    }
}

finalprice = price - (price * discount / 100);
printf("Final Price is: %.2lf\n", finalprice);

return 0;
}
```