

Assignment 2

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

```
#include <stdio.h>
int main()
{
    int price = 500;
    float discount;
    float finalprice;

    if(price<=500){
        discount = price*0.1;
    }else if(price>500 && price<=1000){
        discount = price*0.2;
    }else if(price>1000 && price<=2000){
        discount = price*0.25;
    }
    finalprice = price-discount;
    printf("Final Price = %.2f", finalprice);
}
```

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

```
#include <stdio.h>
int main()
{
    int a=10, b=30, c=20;

    if(a>b)
    {
        if(a>c)
        {
            printf("a is greater");
        }else{
            printf("c is greater");
        }
    }else{
        if(b>c){
            printf("b is greater");
        }else{
            printf("c is grater");
        }
    }
}
```

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

```
#include <stdio.h>
int main()
{
    char sy = '%';
    int a = 20, b = 10;
    int c;

    if(sy == '+'){
        c = a + b;
    }else if(sy == '-'){
        c = a - b;
    }else if(sy == '*'){
        c = a * b;
    }else if(sy == '/'){
        c = a / b;
    }else if(sy == '%'){
        c = a % b;
    }
    printf("The result is %d", c);
}
```

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 choice = 2;
    int a = 10;
    int basicSalary = 5000;
    float ba, ta, hra;
    float totalSalary;

    if(choice == 1){
        if(a%2==0){
            printf("a is even");
        }else{
            printf("a is odd");
        }
    }
    }else if(choice == 2){
        if(basicSalary<=5000){
            ba = basicSalary * 0.1;
            ta = basicSalary * 0.15;
            hra = basicSalary * 0.2;
        }
    }
}
```

```

    }else{
        ba = basicSalary * 0.15;
        ta = basicSalary * 0.20;
        hra = basicSalary * 0.25;
    }
    totalSalary = basicSalary + ba + ta + hra;
    printf("Total Salary is : %.2f", totalSalary);
} else if(choice > 2){
    printf("Invalid Choice");
}

```

```

}

```

- 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()

```

```

{

```

```

    float price = 200;

```

```

    float discount;

```

```

    float finalPrice;

```

```

    char isStudent = 'N';

```

```

    if (isStudent == 'Y'){

```

```

        if (price >= 500){

```

```

            discount = price * 0.2;

```

```

        }else{

```

```

            discount = price * 0.1;

```

```

        }

```

```

    }else{

```

```

        if (price >= 600){

```

```

            discount = price * 0.15;

```

```

        }else{

```

```

            discount = price * 0;

```

```

        }

```

```

    }

```

```

    finalPrice = price - discount;

```

```

    printf("Final Price is: %.2f", finalPrice);

```

```

}

```