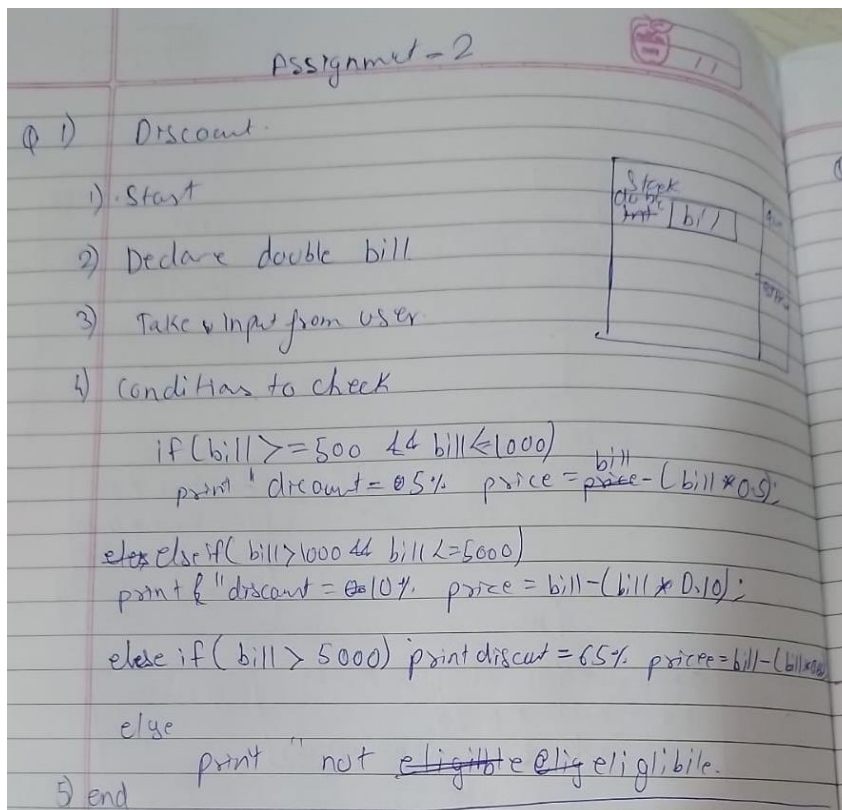


Q1. Find the price of item when discount is given (specify different discount based on price)

Code:

```
#include<stdio.h>
//Find the price of item when discount is given (specify different discount based on price)
void main(){
    double bill;
    printf("Enter Your Bill amount: ");
    scanf("%lf", &bill); //1200
    if(bill>=500 && bill<=1000) printf("you will get of 5%% so Total price to be paid is %.2lf", bill-(bill*0.05));
    else if(bill>1000 && bill<=5000) printf("you will get of 10%% so Total price to be paid is %.2lf", bill-(bill*0.10));
    else if(bill>5000 && bill<=10000) printf("you will get of 25%% so Total price to be paid is %.2lf", bill-(bill*0.25));
    else if(bill>15000 && bill<=20000) printf("you will get of 55%% so Total price to be paid is %.2lf", bill-(bill*0.55));
    else if(bill>20000) printf("you will get of 65%% so Total price to be paid is %.2lf", bill-(bill*0.65));
    else{
        printf("you are not eligible :(");
    }
}
```

Flow chat

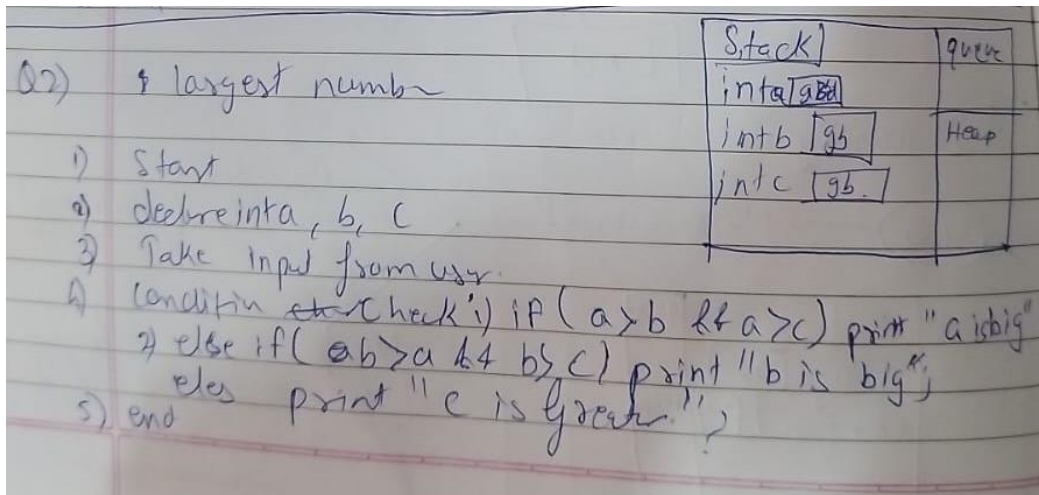


Q2. Write a program to find greatest of three numbers using nested if-else

Code:

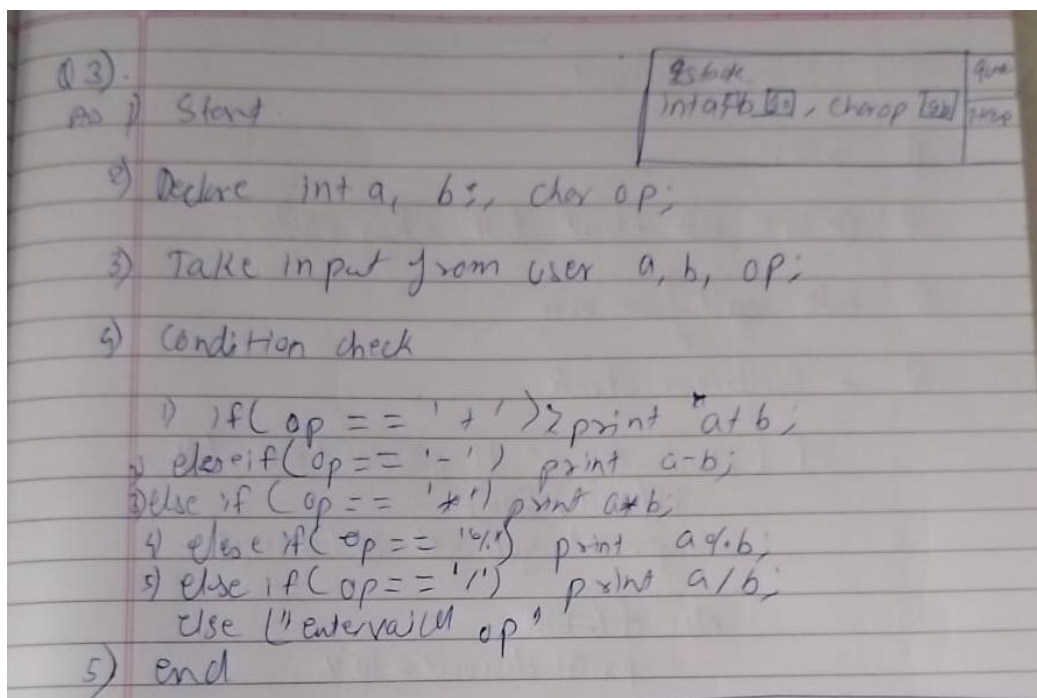
```
#include<stdio.h>
//Write a program to find greatest of three numbers using nested if-else.
void main(){
    int a,b,c;
    printf("enter values: ");
    scanf("%d %d %d",&a,&b,&c);
    if(a>b && a>c) printf("greater is %d",a);
    else if(b>a && b>c) printf("greater is %d",b);
    else printf("greater is %d",c);
}
```

Flow Chart



Q3. Accept two numbers from user and an operator (+,-,/,*,%) based on that perform the desired operations.

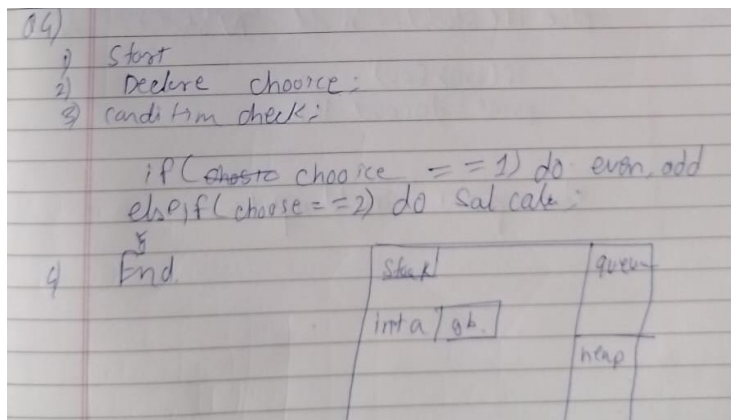
```
//Accept two numbers from user and an operator (+,-,/,*,%) based on that
perform the desired operations.
#include<stdio.h>
void main(){
    int a, b;
    char op;
    printf("Enter any two number: ");
    scanf("%d %d", &a, &b);
    printf("\nwhat operation do you want to perform: ");
    fflush(stdin);
    scanf("%c", &op);
    if(op == '+') printf("you do %c the answer is %d",op,a+b);
    else if(op == '-') printf("you did %c the answer is %d",op,(a-b));
    else if(op == '/') printf("you did %c the answer is %d",op,(a/b));
    else if(op == '*') printf("you did %c the answer is %d",op,(a*b));
    else if(op == '%') printf("you did %c the answer is %d",op,(a%b));
    else printf("enter vaild value");
}
```



Q4. 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.

Code:

```
#include<stdio.h>
//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.
void main(){
    int choice;
    printf("what do you want to do\n1.Even odd\n2.Basic salary: ");
    scanf("%d", &choice);
    if(choice == 1){
        printf("Your have choice even odd\nenter number you want to find is even or
odd: ");
        int odd; scanf("%d", &odd);
        odd%2==0?printf("is even number"):printf("is odd number");
    }else if (choice ==2)
    {
        printf("You choose salary \nenter sal: ");
        int basic ;scanf("%d",&basic);
        float da,ta,hra, sal;
        if(basic <= 5000){
            da = basic* 0.15;
            ta = basic * 0.20;
            hra = basic * 0.25;
            sal = basic + (da+ta+hra);
        }
        else{
            da = basic* 0.15;
            ta = basic * 0.25;
            hra = basic * 0.30;
            sal = basic + (da+ta+hra);
        }
        printf("your sal is %.2f",sal);
    }
}
```



Q5 . 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 no discount.

```
#include<stdio.h>
void main(){
    float bill;
    char student ;
    printf("if you are student enter y else n:" );
    scanf("%c",&student);
    if(student == 'y' || student == 'Y' ){
        fflush(stdin);
        printf("you are student\nEnter amount: ");
        scanf("%f", &bill);
        if(bill> 500) printf("You will get discount of 20% that is
%.2f",(bill*0.20));
        else printf("You will get discount of 10% that is %.f",(bill*0.10));
    }
    else if (student=='n' || student == 'N')
    {
        printf("Your are not a student\nEnter amount: ");
        scanf("%f", bill);
        if(bill>600) printf("You will get discount of 15% that is
%f",(bill*0.15));
    }
    else printf("invalid input");
}
```

Q5) Student discount

- 1) Start
- 2) Declare ~~bill~~ float bill; char student;
- 3) take input from user
- 4) condition check

```
if (student == 'y' || student == 'Y')
    if (bill > 500)
        printf("you get 20% discount");
    else if (bill)
        printf("discount = 10%");
else if (student == 'n' || student student == 'N')
    if (bill > 600)
        printf("discount 15%");
else printf("invalid input");
```