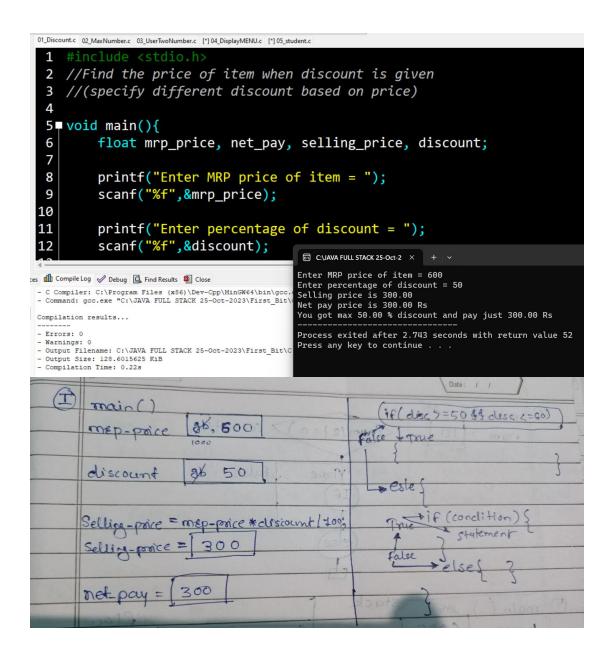
Assignment 2

Nested if-else

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

```
#include <stdio.h>
//Find the price of item when discount is given
//(specify different discount based on price)
void main(){
        float mrp_price, net_pay, selling_price, discount;
        printf("Enter MRP price of item = ");
        scanf("%f",&mrp_price);
        printf("Enter percentage of discount = ");
        scanf("%f",&discount);
        selling_price= mrp_price*discount/100;
        printf("Selling price is %.2f",selling_price);
        net_pay= mrp_price - selling_price;
        printf("\nNet pay price is %.2f Rs",net_pay);
        if (discount>=50 && discount<=60) {
                printf("\nYou got max %.2f %% discount and pay just %.2f Rs", discount,net_pay);
        }
        else {
                if(discount>=20 && discount<=49) {
                        printf("\nYou got min %.2f %% discount and pay just %.2f Rs",
discount,net_pay);
                else {
                        printf("\nUff you are not eligible for discount");
                }
        }
}
```



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

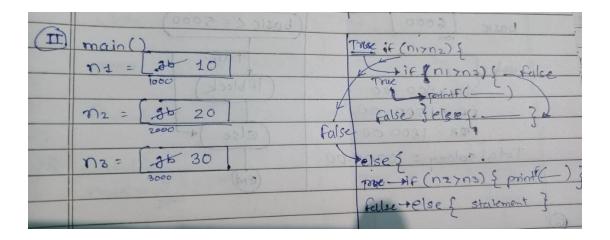
```
#include <stdio.h>
void main() {
int n1, n2, n3;
printf("Enter number n1 =");
scanf("%d",&n1);

printf("Enter number n2 =");
scanf("%d",&n2);
```

```
printf("Enter number n3 =");
scanf("%d",&n3);
if (n1>n2){
         if(n1>n3){
         printf("n1 is greater");
         else {
         printf("n3 is greater");
}
else {
         if (n2>n3){
                  printf("n2 is greater");
         }
         else {
                 printf("n3 is greater");
         }
  1 #include <stdio.h>
  2 proid main() {
     int n1, n2, n3;
      printf("Enter number n1 =");
  5
      scanf("%d",&n1);
  6
  7
      printf("Enter number n2 =");
  8
      scanf("%d",&n2);
  9
 10
      printf("Enter number n3 =");
      scanf("%d",&n3);
 11
 12
13 if (n1>n2){
                                               © C:\JAVA FULL STACK 25-Oct-2 × + ∨
es 📶 Compile Log 🤣 Debug 🗓 Find Results 🏶 Close
                                              Enter number n1 =10
- C Compiler: C:\Program Files (x86)\Dev-Cpp\MinGW64\bi Enter number n2 =20 - Command: gcc.exe "C:\JAVA FULL STACK 25-Oct-2023\Firs Enter number n3 =30
                                              n3 is greater
Compilation results...
                                              Process exited after 2.575 seconds with return value 13
- Errors: 0
                                              Press any key to continue . . .
```

- Output Filename: C:\JAVA FULL STACK 25-Oct-2023\First

- Output Size: 128.6015625 KiB - Compilation Time: 0.20s

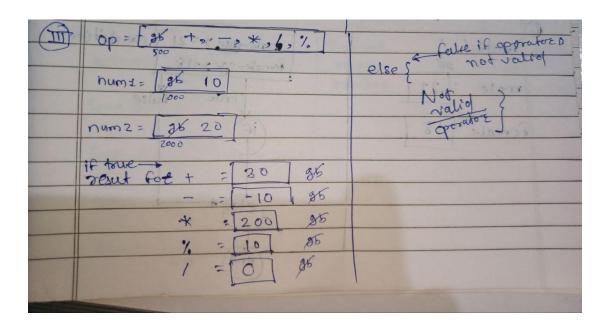


3. Accept two numbers from user and an operator (+,-,/,*,%) based on that perform the desired operations.

```
#include <stdio.h>
int main() {
char op;
int result, num1, num2;
printf("Enter operator = ");
scanf("%c",&op);
if(op == '+' || op == '-' || op == '*' || op == '/' || op == '%')
printf("Enter num1 = ");
scanf("%d",&num1);
 printf("Enter num2 = ");
scanf("%d",&num2);
  if (op == '+')
   result = num1 + num2;
   printf("ans is : %d", result);
  else if (op == '-')
   result = num1 - num2;
   printf("ans is : %d", result);
  else if (op == '*')
```

```
{
    result = num1 * num2;
    printf("ans is : %d", result);
}
else if (op == '/')
{
    result = num1 / num2;
    printf("ans is : %d", result);
}
else if (op == '%')
{
    result = num1 % num2;
    printf("ans is : %d", result);
}
}
else
{
    printf("\nInvalid operator entered");
}
return 0;
}
```

```
1 #include <stdio.h>
  2 void main() {
  3 int n1, n2, n3;
     printf("Enter number n1 =");
  5
     scanf("%d",&n1);
  6
  7
      printf("Enter number n2 =");
  8
      scanf("%d",&n2);
     printf("Enter number n3 =");
10
      scanf("%d",&n3);
13 if (n1>n2){
                                            © C:\JAVA FULL STACK 25-Oct-2 × + ∨
es 🅼 Compile Log 🤣 Debug 📮 Find Results 🕷 Close
                                           Enter number n1 =10
- C Compiler: C:\Program Files (x86)\Dev-Cpp\MingW64\bi
- Command: gcc.exe "C:\JAVA FULL STACK 25-Oct-2023\Firs Enter number n3 =30
                                            n3 is greater
Compilation results...
                                            Process exited after 2.575 seconds with return value 13
- Errors: 0
                                            Press any key to continue . . .
- Warnings: 0
- Output Filename: C:\JAVA FULL STACK 25-Oct-2023\First
- Output Size: 128.6015625 KiB
- Compilation Time: 0.20s
```

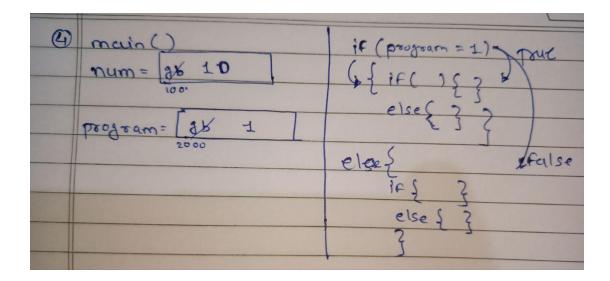


4. Display a menu to the user (like 1.Even Odd 2. Basic salary etc), ask the user to enter his choice, then based on that perform the desired operations.

```
#include<stdio.h>
int main()
 int num, res, program, salary;
 printf("Enter the number : ");
 scanf("%d", &num);
 printf("\nPress 1 for Even Odd");
 printf("\nPress 2. Basic Salary");
 printf("\nEnter 1 or 2 from the above menu : \n");
 scanf("%d", &program);
 if (program == 1)
  if (num % 2 == 0)
   printf("number is even");
  }
  else
   printf("number is odd");
  }
 }
 else
```

```
if (program == 2 && num>0)
{
    salary = num * 30;
    printf("your salary is equal to : %d\n", salary);
}
else
{
    printf("salary is invalid");
}
return 0;
}
```

```
#include<stdio.h>
    int main()
 int num, res, program, salary;
 4
 5
        printf("Enter the number : ");
        scanf("%d", &num);
 6
  7
        printf("\nPress 1 for Even Odd");
 8
        printf("\nPress 2. Basic Salary");
 9
        printf("\nEnter 1 or 2 from the above menu : \n");
10
        scanf("%d", &program);
11
                                      © C:\JAVA FULL STACK 25-Oct-2 × + ∨
        if (program == 1)
                                     Enter the number : 10
s 🛍 Compile Log 🥒 Debug 🖳 Find Results 🐉 Close
                                     Press 1 for Even Odd
                                     Press 2. Basic Salary
- C Compiler: C:\Program Files (x86)\Dev-Cpp\MinG
- Command: gcc.exe "C:\JAVA FULL STACK 25-Oct-20
                                     Enter 1 or 2 from the above menu :
Compilation results...
                                     number is even
- Errors: 0
                                     Process exited after 3.447 seconds with return value 0
- Warnings: 0
- Output Filename: C:\JAVA FULL STACK 25-Oct-2023 Press any key to continue . . .
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.17s
```



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.

```
#include <stdio.h>
int main() {
  float discount, price;
  int quantity;
  char Student;
  // Accept the price and quantity from the user
  printf("Enter the price of item:");
  scanf("%f", &price);
  printf("Enter the quantity: ");
  scanf("%d", &quantity);
  // Ask if the user is a student
  printf("Are you a student? (y/n): ");
  scanf(" %c", &Student);
  // Calculate discount based on user type and purchase amount
  if (Student == 'y') {
    if (quantity > 500) {
     // discount = 20;
```

```
printf("You got 20%% discount");
    } else {
      // discount = 10;
      printf("You got 10%% discount");
  } else {
    if (quantity > 600) {
      // discount = 15;
      printf("You got 15%% discount");
    } else {
      // discount = 00;
      printf("BAD LUCK..! No discount");
    }
  }
  return 0;
}
  2pint main() {
           float discount, price;
  3
 4
           int quantity;
 5
           char Student;
 6
  7
           // Accept the price and quantity from the user
 8
           printf("Enter the price of item : ");
           scanf("%f", &price);
 9
10
           printf("Enter the quantity: ");
11
           scanf("%d", &quantity);
12
s 🌓 Compile Log 🤣 Debug 🗓 Find Results 🍇 Close
                                     © C:\JAVA FULL STACK 25-Oct-2 ×
- C Compiler: C:\Program Files (x86)\Dev-Cpp\Mi
- Command: gcc.exe "C:\JAVA FULL STACK 25-Oct-
                                    Enter the price of item : 600
                                    Enter the quantity: 500
Are you a student? (y/n): y
Compilation results...
- Errors: 0
                                     You got 10% discount
- Warnings: 0
```

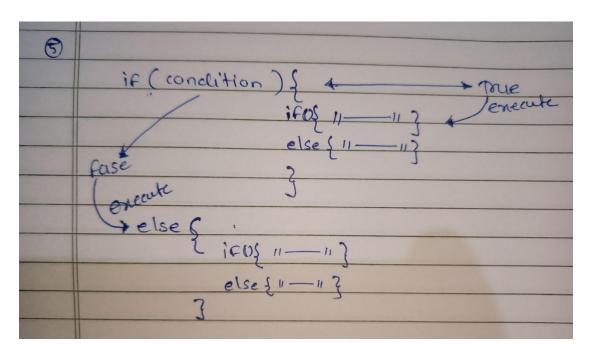
Process exited after 11.29 seconds with return value 0

Press any key to continue .

- Output Filename: C:\JAVA FULL STACK 25-Oct-20

- Output Size: 128.6015625 KiB

- Compilation Time: 0.20s



END