

Practical No.02

Aim: Programs based on various operators

1. Programs on Operators and Expressions

Program:

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

void main()

{
    int a,b,c,d,e,h,n,p,q,r,s,t;
    int z=100,y;
    float f;

    clrscr();

    //Example of Arithmetic and Assignment Operators

    a=10,b=5,c=7,d=8,e=3,h=5;

    a+=10;
    b-=2;
    c*=3;
    d/=2;
    f=(a+b)/2;

    printf("The value of f is:%f",f);

    //Example of Relational and Logical Operators

    if(a<=b && c<d)
    {
        printf("\n Both conditions are true");
    }

    if(a>b || c>=d)
    {
        printf("\n May be one Condition is true");
    }

    if((a==b) && !(c<d))
    {
        printf(" \n May be true");
    }

    //Examples of Bitwise Operators

    n=(e&h);
    p=(e|h);
    q=(e^h);
    r=(~e);
    s=e>>1;
    t=h<<1;

    printf("\n The value of n is %d",n);
```

```

printf("\n The value of p is %d",p);
printf("\n The value of q is %d",q);
printf("\n The value of r is %d",r);
printf("\n The value of s is %d",s);
printf("\n The value of t is %d",t);

//Example of Conditional Operator

y=(z>120?4:5);

printf("\n The value of y is %d",y);

//Example of increment & Decrement operator

y=y++;

printf("\n The value of y is %d",y);

y=y--;

printf("\n The value of y is %d",y);

getch();

}

```

Output:

```

DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC
The value of f is:11.000000
May be one Condition is true
The value of n is 1
The value of p is 7
The value of q is 6
The value of r is -4
The value of s is 1
The value of t is 10
The value of y is 5
The value of y is 6
The value of y is 5_

```