

PROGRAM 1

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

```
int main()
```

```
{
```

```
    int num1,num2,optn,x;
```

```
    while(1)
```

```
    {
```

```
        printf("Enter the first Integer :");
```

```
        scanf("%d",&num1);
```

```
        printf("\nEnter the second Integer :");
```

```
        scanf("%d",&num2);
```

```
        printf("\nEnter the option :\n");
```

```
        printf("\n1-Addition\n");
```

```
        printf("\n2-Subtraction\n");
```

```
        printf("\n3-Multiplication\n");
```

```
        printf("\n4-Division\n");
```

```
        printf("\n5-Greater than\n");
```

```
        printf("\n6-Less than\n");
```

```
        printf("\n7-Equal to\n");
```

```
        printf("\n8-Not equal to\n");
```

```
        printf("\n9-Modulus\n");
```

```
        printf("\n10-Decrement\n");
```

```
        scanf("%d",&optn);
```

```
        double div=((double)num1)/num2;
```

```

printf("\n\n");

switch(optn)
{
    case 1:
        printf("The Addition of %d and %d is: %d\n",num1,num2,num1+num2);
        break;

    case 2:
        printf("\nThe Substraction of %d and %d is: %d\n",num1,num2,num1-
num2);
        break;

    case 3:
        printf("\nThe Multiplication of %d and %d is:
%d\n",num1,num2,num1*num2);
        break;

    case 4:

        printf("\nThe Division of %d and %d is : %.2f \n",num1,num2,div);
        break;

    case 5:

        if(num1>num2)
            printf("\nThe number %d is greater than the number
%d\n",num1,num2);

        else

```

```
{  
    printf("\nThe number %d is greater than %d\n",num2,num1);  
}  
break;
```

case 6:

```
if(num1<num2)  
    printf("\nThe number %d is less than teh number %d\n",num1,num2);  
  
else  
{  
    printf("\nThe number %d is less than the number  
%d",num2,num1);  
}  
break;
```

case 7:

```
if(num1==num2)  
    printf("\nBoth the numbers are equal\n");  
  
else  
{  
    printf("\nThe numbers are not equal\n");  
}  
break;
```

case 8:

```

        if(num1!=num2)

            printf("\nBoth the numbers are not equal\n");


        else
        {
            printf("\nThe numbers are equal\n");
        }
        break;


    case 9:

        printf("\n%d mod %d = %d\n",num1,num2,num1%num2);
        break;


    case 10:

        printf("\n%d-- = %d",num1,num1-1);
        printf("\n%d-- = %d",num2,num2-1);
        break;


    default:

        printf("Input correct option\n");

}

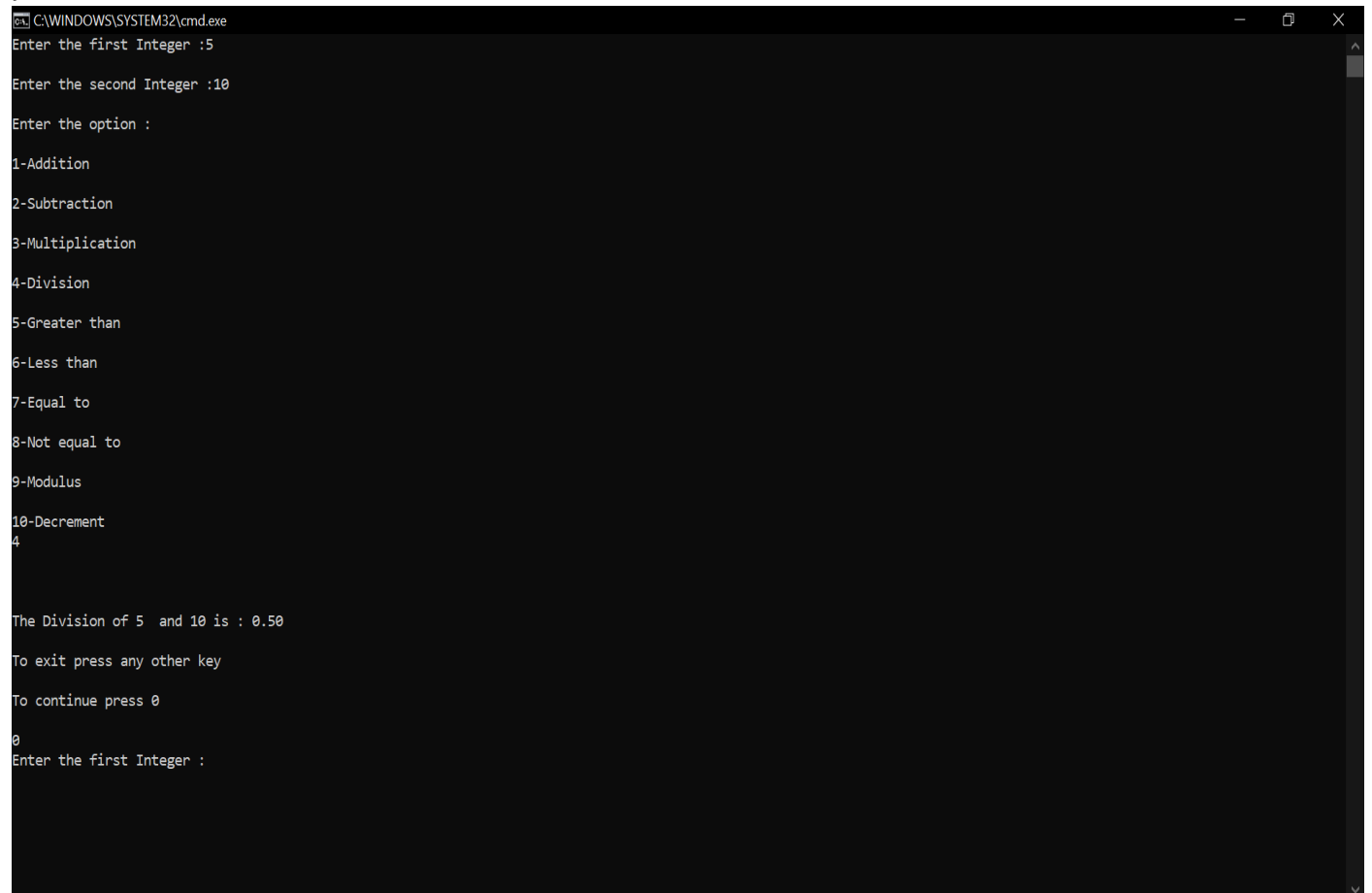

printf("\nTo exit press any other key");
printf("\n\nTo continue press 0\n\n");
scanf("%d", &x);


if(x!=0)

```

```
    {  
        break;  
    }  
}
```

```
}
```



A screenshot of a Windows command prompt window titled "C:\WINDOWS\SYSTEM32\cmd.exe". The window has a black background with white text. The text shows the execution of a C program that prompts for two integers and an option. The first integer entered is 5, and the second is 10. The program lists ten options: 1-Addition, 2-Subtraction, 3-Multiplication, 4-Division, 5-Greater than, 6-Less than, 7-Equal to, 8-Not equal to, 9-Modulus, and 10-Decrement. The user has entered '4' for the option. The program then outputs "The Division of 5 and 10 is : 0.50". It also displays instructions: "To exit press any other key" and "To continue press 0". The user has entered '0', and the program has prompted for the first integer again.

```
C:\WINDOWS\SYSTEM32\cmd.exe  
Enter the first Integer :5  
  
Enter the second Integer :10  
  
Enter the option :  
1-Addition  
2-Subtraction  
3-Multiplication  
4-Division  
5-Greater than  
6-Less than  
7-Equal to  
8-Not equal to  
9-Modulus  
10-Decrement  
4  
  
The Division of 5 and 10 is : 0.50  
  
To exit press any other key  
To continue press 0  
0  
Enter the first Integer :
```

PROGRAM 2

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

```
float sumaver(int x,int y)
```

```
{  
    int sum;  
    sum = x +y;  
    printf("\nSum of %d and %d = %d\n",x,y,sum);  
    return (float)sum/2;  
}
```

```
void printeven(int x,int y)
```

```
{  
    int i;  
    printf("\n\nThe even numbers between %d and %d are \t",x,y);  
    if(y>x)  
    {  
        for(i=x+1;i<y;i++)  
        {  
            if(i%2==0)  
            {  
                printf("%d\t",i);  
            }  
        }  
    }  
    else if(x>y)  
    {  
        for(i=y+1;i<x;i++)  
        {
```

```

        if(i%2==0)
        {
            printf("%d\t",i);
        }
    }
}
else
{
    printf("NONE");
}
}
int main()
{
    int a,b,c,x,y;
    float avg;
    printf("Enter any three numbers:\n");
    scanf("%d%d%d",&a,&b,&c);
    if(a>c && b>c)
    {
        x=a;
        y=b;
    }
    else if(a>b && c>b)
    {
        x=a;
        y=c;
    }
    else
    {

```

```
        x=b;

        y=c;
    }

    printf("\nThe two greater numbers are %d and %d\n",x,y);

    avg = sumaver(x,y);

    printf("\nAverage of the numbers %d and %d = %.2f",x,y,avg);

    printeven(x,y);

    return 0;

}
```



```
C:\WINDOWS\SYSTEM32\cmd.exe
Enter any three numbers:
1
2
7

The two greater numbers are 2 and 7

Sum of 2 and 7 = 9

Average of the numbers 2 and 7 = 4.50

The even numbers between 2 and 7 are 4 6

-----
(program exited with code: 0)
Press any key to continue . . .
```