```c
#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);
```

```c
                              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;
        }

    }

}
```