main.c

```c
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
int main()
{
    int a,b,c,w;
    printf("\n1for add\n2 for subt\n3 for mult\n4 for div\n5 for greater than\n6 for less than\n7 for equal\n8 for not equal to\n9 for modulo\n10 for the power\n 0 for exit\n");
    while(w != 0){
        printf("Enter a and b\n");
        scanf("%d%d",&a,&b);
        printf("Enter the operation number : ");
        scanf("%d",&c);
        switch(c) {
            case 1: printf("%d\n",a+b);
            break;
            case 2: printf("%d\n",a-b);
            break;
            case 3: printf("%d\n",a*b);
            break;
            case 4: if(b==0){printf("Divisor cant be zero!!!\n");}
                    else{printf("%d\n",a/b);}
            break;
            case 5: if(a>b){printf("first number is greater\n");}
                    else if (a<b){printf("second number is greater\n");}
                    else{printf("This is not the case, choose other\n");}
            break;
            case 6: if(a>b){printf("second number is smaller\n");}
                    else if(a<b){printf("first number is smaller\n");}
                    else{printf("This is not the case, choose other\n");}
            break;
            case 7: if(a==b){printf("both are equal\n");}
                    else{printf("This is not the case, choose other\n");}
            break;
            case 8: if(a!=b){printf("both are not equal\n");}
                    else{printf("This is not the case, choose other");}
            break;
            case 9: if(b==0){printf("Divisor cant be zero!!!\n");}
                    else{printf("%d\n",a%b);}
            break;
            case 10: printf("%f",pow(a,b));
            break;
        }
    printf("\nTo continue press 1 otherwise press 0\n");
    printf("Do you wish to continue : ");
    scanf("%d",&w);
    if(w==0){exit(0);}
    else{main();}
    }
    return 0;
};

```

"C:\Users\Shreshtha Aggarwal\Desktop\1stpro\bin\Debug\1stpro.exe"

```
1for add
2 for subt
3 for mult
4 for div
5 for greater than
6 for less than
7 for equal
8 for not equal to
9 for modulo
10 for the power
 0 for exit
Enter a and b
7
8
Enter the operation number : 2
-1

To continue press 1 otherwise press 0
Do you wish to continue : 0

Process returned 0 (0x0)   execution time : 23.578 s
Press any key to continue.
```

main.c

```c
#include<stdio.h>
float sumaver(int m,int n){
    float a;
    printf("Sum = %d\n",m+n);
    (a)=(float) (m+n)/2;
    return a;
}
void printeven(int k, int j){
    if(k%2 == 0 && j%2 == 0){printf("Even numbers :- %d and %d\n",k,j);}
    else if(k%2 == 0 && j%2 != 0){printf("Even number :- %d\n",k);}
    else if(k%2 != 0 && j%2 == 0){printf("Even number :- %d\n",j);}
    else {printf("None of them is even\n");}
}
int main()
{
    int a,b,c,h,s;
    float avg;
    printf("Enter a,b,c\n");
    scanf("%d%d%d",&a,&b,&c);
    h=a>b?(a>c?a:c):(b>c?b:c);
    s=(a==(h))?(b>c?b:c):(b>c?(a>c?a:c):(a>b?a:b));
    printf("%d and %d are the greater numbers\n",h,s);
    avg=sumaver(h,s);
    printeven(h,s);
    printf("average is %f\n",avg);
    return 0;
}
```

"C:\Users\Shreshtha Aggarwal\Desktop\1stpro\bin\Debug\1stpro.exe"

```
Enter a,b,c
8
95
4
95 and 8 are the greater numbers
Sum = 103
Even number :- 8
average is 51.500000

Process returned 0 (0x0)   execution time : 6.358 s
Press any key to continue.
```