main.c X

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

int main()
{

    printf("welcome to nouran's world!\n");
    printf("_____ \n");

    //check number positive negative zero
    int number1;
    printf("please enter a number to decide if it positive or negative or zero : ");
    scanf("%d",&number1);
    if (number1>0){
        printf("%d is a positive number \n",number1);
    }
    else if (number1 <0){
        printf("%d is a negative number \n",number1);
    }
    else {
        printf("this is Zero \n");
    }
    printf("_____ \n");
```

"D:\ITI 2023_2024\C Programming\labs\lab2\bin\Debug\lab2.exe"

```
welcome to nouran's world!
_____
please enter a number to decide if it positive or negative or zero : 2
2 is a positive number
```

```c
    //check if number even or odd
    int number2;
    printf("please enter a number to decide if it even or odd : ");
    scanf("%d",&number2);
    if(number2%2==0){
            printf("%d is an even number \n",number2);
    }
    else {
            printf("%d is an odd number \n",number2);
    }
    printf("_____
```

```
please enter a number to decide if it even or odd : 2
2 is an even number
```

```
please enter a number to decide if it even or odd : 7
7 is an odd number
```

```c
37      //find the largest number among three numbers
38      int num1,num2,num3;
39      printf("please enter three numbers to know the largest : ");
40      scanf("%d %d %d",&num1,&num2,&num3);
41      if (num1>=num2&&num1>=num3){
42          printf("the largest number is %d : \n",num1);
43      }
44      else if (num2>=num1&&num2>=num3){
45          printf("the largest number is %d : \n",num2);
46      }
47      else{
48          printf("the largest number is %d : \n",num3);
49      }
50      printf("_____\n");
51
```

```
please enter three numbers to know the largest : 5 9 2
the largest number is 9 :
```

```c
51
52      //students grades
53      int grade;
54      printf("please enter student grade : ");
55      scanf("%d",&grade);
56          if (grade>=85){
57          printf("Excellent :) \n");
58      }
59      else if (grade>=75){
60          printf("Good \n");
61      }
62      else if (grade==65){
63          printf("Good \n");
64      }
65          else if (grade==50){
66          printf("Pass \n");
67      }
68          else if (grade<50){
69          printf("Fail \n");
70      }
71          else {
72          printf("No evaluation Found \n");
73      }
74      printf("_____\n");
```

```
please enter student grade : 50
Pass
```

```c
//calculate using switch
int n1,n2;
char operator1;
printf("please enter two numbers : \n");
scanf("%d %d",&n1,&n2);
printf("please enter an operator (+ or - or * or /) \n");
scanf(" %c",&operator1);
switch(operator1){
case '+':
    printf("the addition of %d and %d is %d",n1,n2,n1+n2);
    break;
case '-':
    printf("the subtraction of %d and %d is %d",n1,n2,n1-n2);
    break;
case '*':
    printf("the multiplication of %d and %d is %d",n1,n2,n1*n2);
    break;
case '/':
    if(n2==0){
        printf("the division of %d and %d is not valid",n1,n2);
    }
    else {
    printf("the divition of %d and %d is %d",n1,n2,(float)n1/n2);

    }
    break;
default:
    printf("please try to put valid operator :) ");
}
return 0;
}
```

```
please enter two numbers :
6 7
please enter an operator (+ or - or * or /)
*
the multiplication of 6 and 7 is 42
Process returned 0 (0x0)    execution time : 19.627 s
Press any key to continue.
```

```
please enter two numbers :
5 0
please enter an operator (+ or - or * or /)
/
the division of 5 and 0 is not valid
Process returned 0 (0x0)    execution time : 10.521 s
Press any key to continue.
```