```c
#include <stdio.h>

void main(){
   int ch, a, b, res=0;
   printf("1. Addition\n2. Subtraction\n3. Multiplication\n4. Division\n");
   printf("Enter choice : ");
   scanf("%d", &ch);

   switch (ch){
     case 1:
          printf("Enter num 1 & num 2: ");
          scanf("%d %d", &a, &b);
          res = a+b;
          break;
     case 2:
          printf("Enter num 1 & num 2: ");
          scanf("%d %d", &a, &b);
          res = a-b;
          break;
     case 3:
          printf("Enter num 1 & num 2: ");
          scanf("%d %d", &a, &b);
          res = a*b;
          break;
     case 4:
          printf("Enter num 1 & num 2: ");
          scanf("%d %d", &a, &b);
          res = a/b;
          break;
     default:
          printf("INVALID CHOICE!");
          break;
   }

   printf("Result = %d\n", res);
}
```

```
bhargav@bhargav:~/Documents/Studies/C$ gcc calc.c -o calc
bhargav@bhargav:~/Documents/Studies/C$ ./calc
1. Addition
2. Subtraction
3. Multiplication
4. Division
Enter choice : 1
Enter num 1 & num 2: 5 3
Result = 8
bhargav@bhargav:~/Documents/Studies/C$ ./calc
1. Addition
2. Subtraction
3. Multiplication
4. Division
Enter choice : 2
Enter num 1 & num 2: 4 3
Result = 1
bhargav@bhargav:~/Documents/Studies/C$ ./calc
1. Addition
2. Subtraction
3. Multiplication
4. Division
Enter choice : 3
Enter num 1 & num 2: 5 4
Result = 20
bhargav@bhargav:~/Documents/Studies/C$ ./calc
1. Addition
2. Subtraction
3. Multiplication
4. Division
Enter choice : 4
Enter num 1 & num 2: 8 4
Result = 2
bhargav@bhargav:~/Documents/Studies/C$ ./calc
1. Addition
2. Subtraction
3. Multiplication
4. Division
Enter choice : 5
INVALID CHOICE!Result = 0
```

```c
#include <stdio.h>
int a, b, res=0;
int add(){
   printf("Enter num 1 & num 2: ");
   scanf("%d %d", &a, &b);
   return a+b;
}
int sub(){
   printf("Enter num 1 & num 2: ");
   scanf("%d %d", &a, &b);
   return a-b;
}
int mul(){
   printf("Enter num 1 & num 2: ");
   scanf("%d %d", &a, &b);
   return a*b;
}
int div(){
   printf("Enter num 1 & num 2: ");
   scanf("%d %d", &a, &b);
   return a/b;
}
void main(){
   int ch;
   printf("1. Addition\n2. Subtraction\n3. Multiplication\n4. Division\n");
   printf("Enter choice : ");
   scanf("%d", &ch);
   switch (ch){
       case 1:
           res = add();
           break;
       case 2:
           res = sub();
           break;
       case 3:
           res = mul();
           break;
       case 4:
           res = div();
           break;
       default:
           printf("Invalid choice!");
           break;
   }
   printf("Result = %d\n", res);
}
```

```
bhargav@bhargav:~/Documents/Studies/C$ gcc calc-func.c -o calc-func
bhargav@bhargav:~/Documents/Studies/C$ ./calc-func
1. Addition
2. Subtraction
3. Multiplication
4. Division
Enter choice : 1
Enter num 1 & num 2: 5 3
Result = 8
bhargav@bhargav:~/Documents/Studies/C$ ./calc-func
1. Addition
2. Subtraction
3. Multiplication
4. Division
Enter choice : 2
Enter num 1 & num 2: 8 5
Result = 3
bhargav@bhargav:~/Documents/Studies/C$ ./calc-func
1. Addition
2. Subtraction
3. Multiplication
4. Division
Enter choice : 3
Enter num 1 & num 2: 6 3
Result = 18
bhargav@bhargav:~/Documents/Studies/C$ ./calc-func
1. Addition
2. Subtraction
3. Multiplication
4. Division
Enter choice : 4
Enter num 1 & num 2: 10 5
Result = 2
bhargav@bhargav:~/Documents/Studies/C$ ./calc-func
1. Addition
2. Subtraction
3. Multiplication
4. Division
Enter choice : 5
Invalid choice!Result = 0
```

```c
#include <stdio.h>
#include <string.h>
#define MAX_LIMIT 20
struct student {
   char name[10];
   char div;
   int roll;
};

void main (){
   struct student s1;

   printf("Enter name : ");
   fgets(s1.name, MAX_LIMIT, stdin);
   printf("Enter division : ");
   scanf("%c", &s1.div);
   printf("Enter roll no : ");
   scanf("%d", &s1.roll);

   printf("\nHere are the details:\n");
   printf("Name : %s", s1.name);
   printf("Division : %c\n", s1.div);
   printf("Roll no : %d\n", s1.roll);
}
```

```
bhargav@bhargav:~/Documents/Studies/C$ gcc student.c -o student
bhargav@bhargav:~/Documents/Studies/C$ ./student
Enter name : Bhargav
Enter division : A
Enter roll no : 3

Here are the details:
Name : Bhargav
Division : A
Roll no : 3
```