```c
1  #include <stdio.h> //'stdio.h' contains declaration of 'printf()'
2
3  // ****** USER DEFINED FUNCTIONS : METHOD OF CALLING FUNCTION 1 ******
4  // ****** CALLING ALL FUNCTIONS IN main() DIRECTLY ******
5
6  // Entry-Point Function => main() => Valid Return Type (int) and 3 Parameters
     (int argc, char *argv[], char *envp[])
7  int main(int argc, char *argv[], char *envp[])
8  {
9      //function prototypes OR declarations
10     void MyAddition(void);
11     int MySubtraction(void);
12     void MyMultiplication(int, int);
13     int MyDivision(int, int);
14
15     //variable declarations
16     int result_subtraction;
17     int a_multiplication, b_multiplication;
18     int a_division, b_division, result_division;
19
20     //code
21
22     // *** ADDITION ***
23     MyAddition(); //function call
24
25     // *** SUBTRACTION ***
26     result_subtraction = MySubtraction(); //function call
27     printf("\n\n");
28     printf("Subtraction Yields Result = %d\n", result_subtraction);
29
30     // *** MULTIPLICATION ***
31     printf("\n\n");
32     printf("Enter Integer Value For 'A' For Multiplication : ");
33     scanf("%d", &a_multiplication);
34
35     printf("\n\n");
36     printf("Enter Integer Value For 'B' For Multiplication : ");
37     scanf("%d", &b_multiplication);
38
39     MyMultiplication(a_multiplication, b_multiplication); //function call
40
41     // *** DIVISION ***
42     printf("\n\n");
43     printf("Enter Integer Value For 'A' For Division : ");
44     scanf("%d", &a_division);
45
46     printf("\n\n");
47     printf("Enter Integer Value For 'B' For Division : ");
48     scanf("%d", &b_division);
49
50     result_division = MyDivision(a_division, b_division); //function call
51     printf("\n\n");
```

```c
52      printf("Division Of %d and %d Gives = %d (Quotient)\n", a_division,
           b_division, result_division);
53
54      printf("\n\n");
55
56      return(0);
57  }
58
59  // *** Function Definition Of MyAddition() ******
60  void MyAddition(void) //function definition
61  {
62      //variable declarations : local variables to MyAddition()
63      int a, b, sum;
64
65      //code
66      printf("\n\n");
67      printf("Enter Integer Value For 'A' For Addition : ");
68      scanf("%d", &a);
69
70      printf("\n\n");
71      printf("Enter Integer Value For 'B' For Addition : ");
72      scanf("%d", &b);
73
74      sum = a + b;
75
76      printf("\n\n");
77      printf("Sum Of %d And %d = %d\n\n", a, b, sum);
78  }
79
80  // *** Function Definition Of MySubtraction() ******
81  int MySubtraction(void) //function definition
82  {
83      //variable declarations : local variables to MySubtraction()
84      int a, b, subtraction;
85
86      //code
87      printf("\n\n");
88      printf("Enter Integer Value For 'A' For Subtraction : ");
89      scanf("%d", &a);
90
91      printf("\n\n");
92      printf("Enter Integer Value For 'B' For Subtraction : ");
93      scanf("%d", &b);
94
95      subtraction = a - b;
96      return(subtraction);
97  }
98
99  // *** Function Definition Of MyMultiplication() ******
100 void MyMultiplication(int a, int b) //function definition
101 {
102     //variable declarations : local variables to MyMultiplication()
```

```c
103        int multiplication;
104
105        //code
106        multiplication = a * b;
107
108        printf("\n\n");
109        printf("Multiplication Of %d And %d = %d\n\n", a, b, multiplication);
110    }
111
112    // *** Function Definition Of MyDivision() ******
113    int MyDivision(int a, int b) //function definition
114    {
115        //variable declarations : local variables to MyDivision()
116        int division_quotient;
117
118        //code
119        if (a > b)
120            division_quotient = a / b;
121        else
122            division_quotient = b / a;
123
124        return(division_quotient);
125    }
126
```