

void sun (void); void mint) void sum () int a=5,b=7, sum=0; sum = a+b; 3 rount (" sun = 1.d in", sun); Program 21: To write a program with addition sultraction, multiplication and division function in a single program Cappanint—Refer case in Soft document]

PROBLEM 1:

```
1 #include <stdio.h>
 2 #include <stdlib.h>
 3   /** 1 - No Argument and No Return Type **/
    void sum(void);
 5 void main()
 7
          sum();
 8
 9 void sum()
10 □{
11
     int a=5,b=7,sum=0;
12
     sum=a+b;
13
     printf("Sum=%d\n", sum);
14
15 L
Logs & others
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                === Build: Debug in 1_NoArugumentNoReturnType (compiler: GNU GCC C...
D:\1.\ C\ NO...\ 5 warning: return type of 'main' is not 'int' [-Wmain]
                === Build finished: 0 error(s), 1 warning(s) (0 minute(s), 2 secon...
                === Run: Debug in 1_NoArugumentNoReturnType (compiler: GNU GCC Com...
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Sum=12
Process returned 7 (0x7) \, execution time : 0.035 \,s
Press any key to continue.
```

PROBLEM 2:

```
#include <stdio.h>
 2
     #include <stdlib.h>
3
     /** 1 - No Argument and No Return Type **/
 4
     void sum(void);
 5
     void main()
 6
7
           sum(5,7);
8
9
     void sum()
10
11
      int a=5,b=7,sum=0;
12
      sum=a+b;
13
      printf("Sum=%d\n", sum);
14
15
Logs & others
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      Line Message
                 === Build: Debug in 2_NoArugumentNoReturnType (compiler: GNU GCC C...
D:\1. C NO... 5
                 warning: return type of 'main' is not 'int' [-Wmain]
D:\1. C NO...
                 In function 'main':
D:\1. C NO... 7 error: too many arguments to function 'sum'
D:\1. C NO... 4 note: declared here
                 === Build failed: 1 error(s), 1 warning(s) (0 minute(s), 0 second(...
```

PROBLEM 3:

```
#include <stdio.h>
  2
      #include <stdlib.h>
      /** 3 - No Argument and No Return Type **/
//void sum(void);
  3
  4
  5
      void main()
  6
     ₽{
  7
            sum();
  8
  9
      void sum()
10
        int a=5,b=7,sum=0;
11
12
        sum=a+b;
13
       printf("Sum=%d\n", sum);
14
15
  Logs & others
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        Line Message
                   === Build: Debug in 3_NoArgumentNoReturnType (compiler: GNU GCC Co...
  D:\1. C NO... 5 warning: return type of 'main' is not 'int' [-Wmain]
  D:\1. C NO...
                   In function 'main':
  D:\1. C NO... 7 warning: implicit declaration of function 'sum' [-Wimplicit-functi...
  D:\1. C NO... 9
                   warning: conflicting types for 'sum'
  D:\1. C NO... 7 note: previous implicit declaration of 'sum' was here
                   === Build finished: 0 error(s), 3 warning(s) (0 minute(s), 0 secon...
 "D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTURE_FUN
Sum=12
Process returned 7 (0x7) \, execution time : 0.037 \,s
Press any key to continue.
```

PROBLEM 4:

```
#include <stdio.h>
 1
  2
      #include <stdlib.h>
  3
       /** 4 - No Argument and No Return Type **/
       //void sum(void);
  4
  5
      void main()
  6
  7
            sum();
  8
  9 float sum()
10 □{
       int a=5,b=7,sum=0;
11
12
        sum=a+b;
13
       printf("Sum=%d\n", sum);
14
15
  Logs & others
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             Line Message
                    === Build: Debug in 4_NoArgumentNoReturnType (compiler: GNU GCC Co...
  D:\1. C NO... 5 warning: return type of 'main' is not 'int' [-Wmain]
  D:\1. C NO...
                   In function 'main':
  D:\1. C NO... 7 warning: implicit declaration of function 'sum' [-Wimplicit-functi...
 D:\1. C NO... 9 error: conflicting types for 'sum'
D:\1. C NO... 7 note: previous implicit declaration of 'sum' was here
D:\1. C NO... In function 'sum':

++ D:\1. C NO... 14 warning: control reaches end of non-void function [-Wreturn-type]
  D:\1. C NO...
```

PROBLEM 5:

```
#include <stdio.h>
 2
       #include <stdlib.h>
     /** 5 - No Argument and No Return Type **/
void sum();//without void gives warning but arguments 5&7 are not passed
 3
 4
 5
      void main()
 6
 7
           sum(5,7);
     L }
 8
 9
     void sum()
10
11
       int a=5,b=7,sum=0;
12
       sum=a+b;
       printf("Sum=%d\n", sum);
13
14
15
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Process returned 7 (0x7) execution time: 0.047 s
Press any key to continue.
```

PROBLEM 6:

```
1
    #include <stdio.h>
 2
     #include <stdlib.h>
 3    /** 6 - No Argument and No Return Type **/
 4
     void sum(void);
 5 main() //default return type will be considered as 'int'
 7
        sum();
 8
        return 0; //optional, can also leave it blank if no return vale
 9
                    //if no return value then declare void in main()
10
11
    void sum()
12
    ₽{
13
      int a=5,b=7,sum=0;
14
       sum=a+b;
15
       printf("Sum=%d\n", sum);
16
17
 Logs & others
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                  === Build: Debug in 6_NoArgumentNoReturnType (compiler: GNU GCC Co...
  D:\1. C NO... 5 warning: return type defaults to 'int' [-Wimplicit-int]
                  === Build finished: 0 error(s), 1 warning(s) (0 minute(s), 0 secon...
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Sum=12
Process returned 0 (0x0) execution time : 0.051 s
Press any key to continue.
```

PROBLEM 7:

```
#include <stdio.h>
1
2
     #include <stdlib.h>
3
     /** 7 - No Argument and No Return Type **/
     void sum(); //no argument so it matches with function definition
4
5
     int main()
6
       sum(5,7); //function call will go and check function declaration
7
8
     void sum(void) //function declaration has no argument and here void hence matches
9
10
11
      int a=5,b=7,sum=0;
12
      sum=a+b;
13
      printf("Sum=%d\n", sum);
14
 ■ "D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTURE_FUNCTIONS\FUNCTIONS_PART 5\... -
                                                                                            Process returned 0 (0x0) execution time: 0.093 s
Press any key to continue.
```

PROBLEM 8:

```
#include <stdio.h>
1
2
      #include <stdlib.h>
3
     /** 8 - No Argument and No Return Type **/
     void sum(void); //void nothing so it matches with function definition
 4
 5
     int main()
 6
        sum(5,7); //function call will go and check function declaration
 7
8
     void sum(void) //function definition matches with declaration
9
10
       int a=5,b=7,sum=0;
11
12
      sum=a+b;
      printf("Sum=%d\n", sum);
13
14
15
Logs & others
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            Line Message
                 === Build: Debug in 8_NoArgumentNoReturnType (compiler: GNU GCC Co...
 D:\1. C NO...
                 In function 'main':
 D:\1. C NO... 7 error: too many arguments to function 'sum'
 D:\1. C NO... 4 note: declared here
                 === Build failed: 1 error(s), 0 warning(s) (0 minute(s), 0 second(...
```

PROBLEM 9:

```
#include <stdio.h>
 2
     #include <stdlib.h>
 3
    /** 9 - No Argument and No Return Type **/
    void sum(void); //void nothing so it matches with function definition
 4
 5
    int main()
 6
 7
        sum(); //function call will go and check function declaration
 8
 9
     void sum(void) //function definition matches with declaration
10
11
      int a=5,b=7,sum=0;
12
      sum=a+b;
13
      printf("Sum=%d\n", sum);
14
15
■ "D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTURE_FUNCTIONS\FUNCTIONS_PART 5\... —
Sum=12
Process returned 0 (0x0) execution time : 0.062 s
Press any key to continue.
```

PROBLEM 10:

```
#include <stdio.h>
 1
 2
     #include <stdlib.h>
 3
     /** 10 - No Argument and No Return Type **/
     void addition(void);
 5
     void subtraction(void);
     void multiplication(void);
 6
 7
     void division(void);
 8
     int main()
 9
    □ {
10
        addition();
11
        subtraction();
12
        multiplication();
13
        division();
14
15
     void addition()
16
17
      int a=10, b=5, sum=0;
18
       sum=a+b;
      printf("Addition=%d\n", sum);
19
20
21
   void subtraction()
22
   ₽{
23
      int a=10, b=5, sub=0;
24
      sub=a-b;
25
     printf("Subtraction=%d\n", sub);
26
27
     void multiplication()
28
   ₽{
29
      int a=10, b=5, mul=0;
30
      mul=a*b;
31
     printf("Multiplication=%d\n", mul);
32
33
    void division()
34
35
      int a=10, b=5, div=0;
36
      div=a/b;
37
      printf("Division=%d\n", div);
38
39
```

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```
Addition=15
Subtraction=5
Multiplication=50
Division=2
                          execution time: 0.047 s
Process returned 0 (0x0)
Press any key to continue.
```