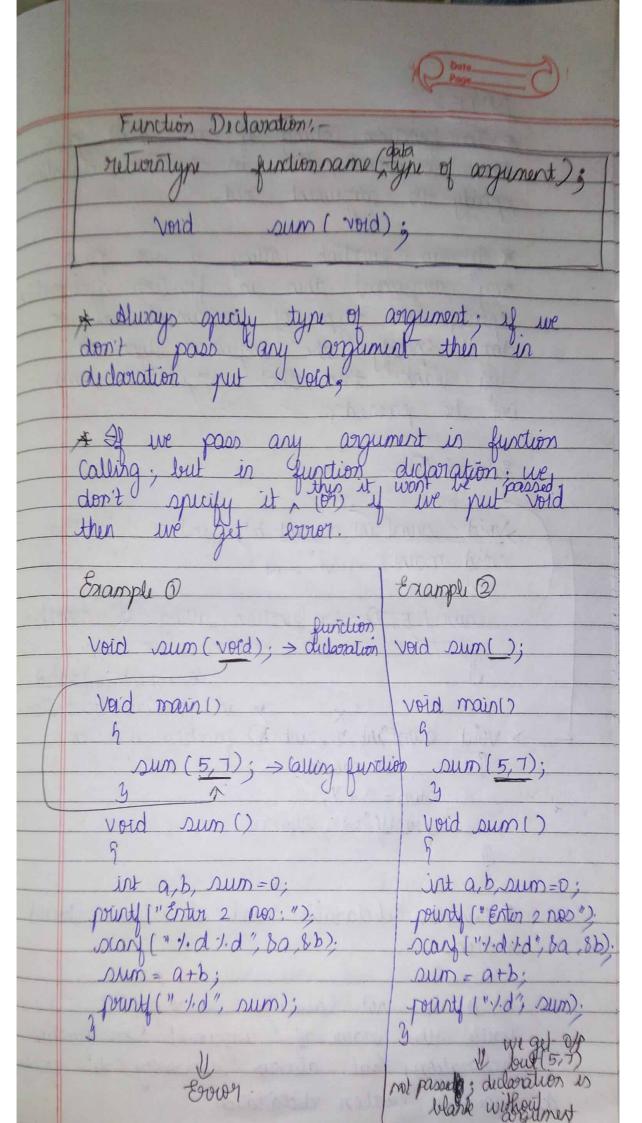
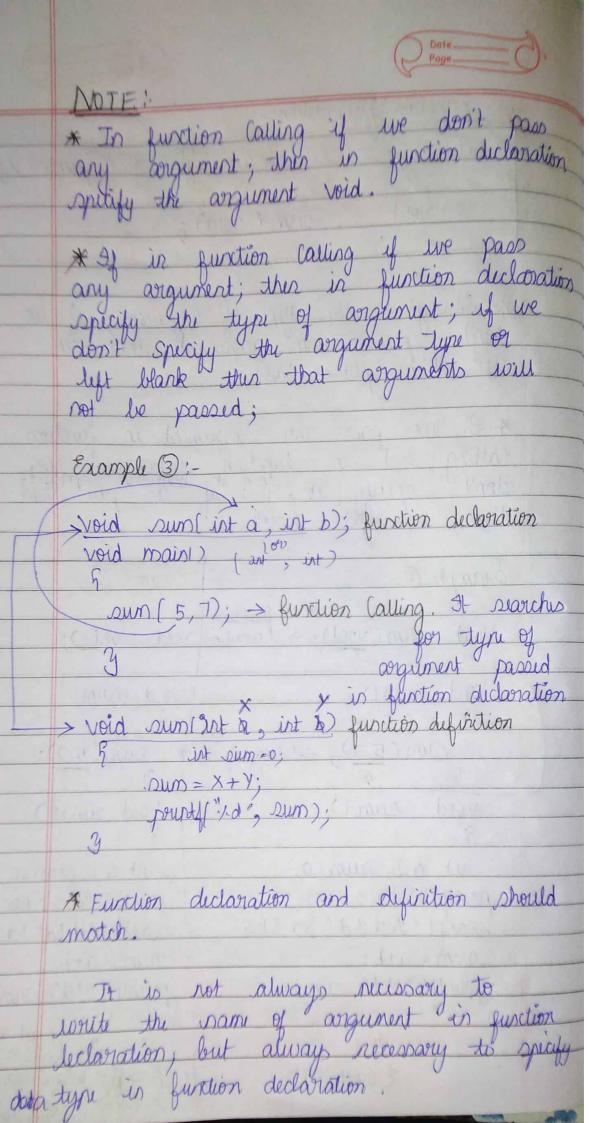


C_85 > Functions in C > Part 2 Lunction Declaration * Before using variables we declare those voriables. Enample : void sums int a, b, sum=0; > Variable declaration printf " Enter 2 nos:"); scary (" /.d /.d ", ba, &b); sum = a+b; 2 pourty (" 1.d", sum); * similarly before using functions; it is a good practise to declare the functions but it not recessary. Function Declaration: ruturnyne function no argument Void sum (5; > function dedarration Void sum (void); Belter void main() 8 Upin an hamph man of schools as 3 househore void sum () int a,b, sum =0; pound ("Enter 2 nos:"); scant (" 1.d 1.d", 80,86); sum = a+b;

(3 pounty (" sum = 1.d", sum);





NOTE:

not be passed;

int sum =0;

. Dum = X+Y;

Example 3:-

motch.



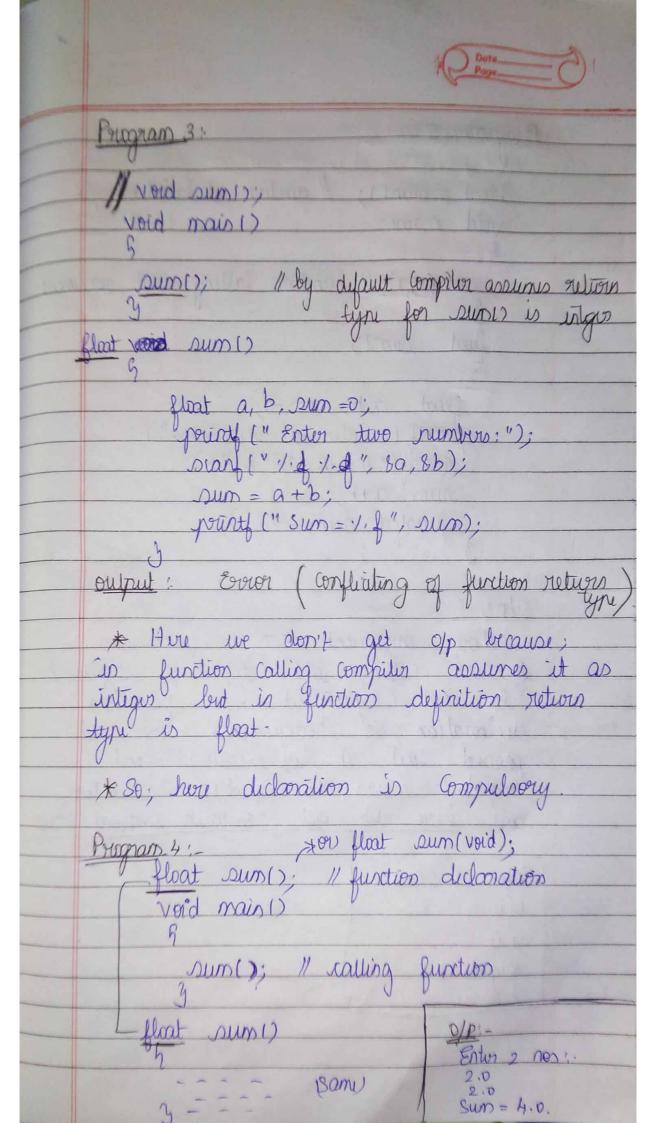
Notes !-Function declaration will tell Competer about 3 things of function going to setuen after competing execution (Action type) (all the function. arguments we pass in the function. spicify returntype; then the compiler by deput Program 1:void sur (); // function declaration Void main!) sums?; 11 function calling. void sum () // function definition int a,b, sum = 0; pourt (" Enter two numbers; "): sun=a+b; point (" + d", sum);

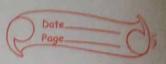


output :-Enter two numbers; Dun=9 Program 2 // void sun(); // function declaration
put in comment bon. void mainl) Sum(); Void sum () int a, b, sum=0;

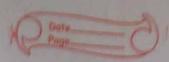
print [" Entir two numbers:");

sconf [" !d !d", ba, &b); sum = a+b; 3 pourty (" sum = 1. d 10", sum); output; Enter two numbers: 5 Mary Comment of the Sum 9 Even though we get output how; we also get wouring misrage as implicit didonation of function.





	Program 5:
	float sum(); // function declaration
73577	sur (5,7); // furction Calling with argument.
	gloat sum()
	float a, b, sum=0;
	scarf (" 1. f 1. f 4, & a, & b);
	sum = a+b; potroly (" sum = 1.f");
	3
WHI	O/P:
	How argument 5,7 is given in
ton.	is not specified in Protion
	declaration; so arguments dore not
	compiler moves to function definition
	and here we get output without ever
	Enter 2 nos;
	6.0 Change Fills
	7-0 sum = 13.
	Committee of the Commit

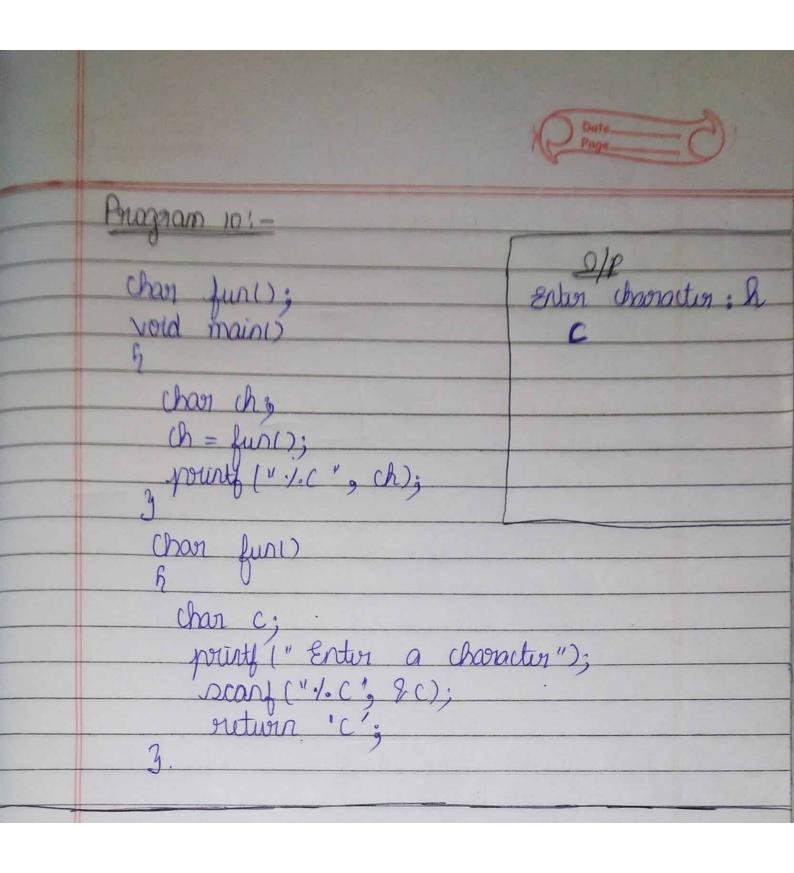


Program 6: If you don't pass any organent in calling function; then put void float sum (void); datatype in function disconstion Sun (5.7); Sowy. float sum 2 float a, b, sum = 0; pount (" Enter 2 numbers: "); scanf (" 1.f 1.f", & 9.8b); sum = a+b; pount (" sum = 1.f"); types of arguments manost we pass in function Calling must be declared in function declaring. A But here we put type of consument as void instead of integer in function delocation; here we get words. // float sum (void); we get of pout
void main() also we get

warning for
function dictardion 3 sum(); mo int sum (Wold)



	(Page O)
	Program 8 and 9:- Void main(); > function declaration (a) output Entercharadin: h pount("'.i.c", ch);
	char funi) Be char c; printy(" Enter a character:"); scanf ("+.c", &c); return c; 3.
7	Dutput: Evoron * Because: declaration and definition of fune; do not match.
	A Siru we do not declare funis; by default compiler assumes it as integer retrientype and for definition of funis are have chan returntype.
	# So in this case; it is must to declare the funct either inside on outside the main function.



PROBLEM 1:

```
#include <stdio.h>
 1
2
     #include <stdlib.h>
    /** 1-FUNCTIONS-PART 2 **/
 3
   void sum(); //function declaration
 4
 5
     int main()
 6
    \square {
 7
      sum(); //function calling
8
      getch();
 9
     void sum() //function definition
10
11
12
     int a,b,sum=0;
      printf("Enter two numbers:\n");
13
     scanf("%d %d", &a, &b);
14
15
     sum=a+b;
     printf("Sum=%d", sum);
16
17
18
```

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```
Enter two numbers:
2
2
Sum=4
```

PROBLEM 2:

```
#include <stdio.h>
 2
      #include <stdlib.h>
 3 /** 2-FUNCTIONS-PART 2 **/
      // void sum(); //function declaration
 4
 5
    int main()
 6
    □ {
 7
      sum();
                    //function calling
 8
      getch();
 9
10
                    //function definition
    void sum()
11
12
      int a,b,sum=0;
      printf("Enter two numbers:\n");
13
14
      scanf("%d %d", &a, &b);
15
      sum=a+b;
      printf("Sum=%d", sum);
16
17
18
Logs & others
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File
            Line Message
                 === Build: Debug in 2 FUNCTIONS PART 2 (compiler: GNU GCC Compiler...
D:\1. C NO... In function 'main':
D:\1. C NO... 7 warning: implicit declaration of function 'sum' [-Wimplicit-functi...
D:\1. C NO... 8 warning: implicit declaration of function 'getch'; did you mean 'g...
D:\1. C NO... 10 warning: conflicting types for 'sum'
D:\1. C NO... 7 note: previous implicit declaration of 'sum' was here
```

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```
Enter two numbers:
2
2
Sum=4
```

PROBLEM 3:

```
#include <stdio.h>
 2
     #include <stdlib.h>
     /** 3-FUNCTIONS-PART 2 **/
 3
 4
     //void sum(); //function declaration
 5
    int main()
 6
                  //function calling
 7
      sum();
 8
      getch();
 9
10 float sum() //function definition
11
12
      int a, b, sum=0;
13
      printf("Enter two numbers:\n");
14
      scanf("%f %f", &a, &b);
15
      sum=a+b;
16
      printf("Sum=%f", sum);
17
18
```

Logs & others

PROBLEM 4:

```
#include <stdio.h>
 2
     #include <stdlib.h>
    /** 4-FUNCTIONS-PART 2 **/
     float sum(); //function declaration
 4
 5
     int main()
 6
    □ {
 7
                  //function calling
      sum();
 8
      getch();
 9
                   //function definition
10
     float sum()
11
    □ {
      float a, b, sum=0;
12
      printf("Enter two numbers:\n");
13
      scanf("%f %f", &a, &b);
14
15
      sum=a+b;
      printf("Sum=%f", sum);
16
17
18
```

```
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Enter two numbers:
4.5
4.5
Sum=9.000000_
```

PROBLEM 5:

```
#include <stdio.h>
 1
 2
     #include <stdlib.h>
 3
     /** 5-FUNCTIONS-PART 2 **/
     int sum(); //there is no type of argument in function definition
 5
     int main()
   sum(5,7); //we pass argument in function calling
getch();
 6
 7
 8
 9
10
    int sum() //since argument type is not defined, its not passed to function defini
11
12
      int a,b,sum=0;
13
     printf("Enter two numbers:\n");
      scanf("%d %d", &a, &b);
14
15
     sum=a+b;
     printf("Sum=%d", sum);
16
17
18
```

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```
Enter two numbers:
4
5
Sum=9
```

PROBLEM 6:

```
1
      #include <stdio.h>
 2
      #include <stdlib.h>
    /** 6-FUNCTIONS-PART 2 **/
 3
      int sum(void); //there is no type of argument in function definition
 4
 5
    int main()
 7 sum(5,7); //we pass argument in function calling
 8
 9
10
     int sum() //since argument type is not defined, its not passed to function defin
11
    ₽{
12
      int a,b,sum=0;
13
      printf("Enter two numbers:\n");
14
      scanf("%d %d", &a, &b);
15
      sum=a+b;
      printf("Sum=%d", sum);
16
17
18
Logs & others
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File Line Message
                === Build: Debug in 6_FUNCTIONS_PART 2 (compiler: GNU GCC Compiler...
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
D:\1. C NO... 8 warning: implicit declaration of function 'getch'; did you mean 'g...
D:\1. C NO... In function 'sum':
```

PROBLEM 7:

```
1
      #include <stdio.h>
 2
      #include <stdlib.h>
 3
      /** 7-FUNCTIONS-PART 2 **/
      //int sum(void);
 4
     int main()
 5
 6
 7
      sum(); //no argument passed and there is no function definition
 8
      getch();
 9
     int sum(void) //void means null, so do not mention in function definition
10
11
12
      int a,b,sum=0;
13
       printf("Enter two numbers:\n");
       scanf("%d %d", &a, &b);
14
15
       sum=a+b;
16
      printf("Sum=%d", sum);
17
18
Logs & others
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      Line Message
                 === Build: Debug in 7_FUNCTIONS_PART 2 (compiler: GNU GCC Compiler...
D:\1. C NO...
                In function 'main':
               warning: implicit declaration of function 'sum' [-Wimplicit-functi...
D:\1. C NO... 7
D:\1. C NO... 8
                 warning: implicit declaration of function 'getch'; did you mean 'g...
                 In function 'sum':
D:\1. C NO...
D:\1. C NO... 17 warning: control reaches end of non-void function [-Wreturn-type]
```

```
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Enter two numbers:
2
2
Sum=4
```

PROBLEM 8:

```
1 #include <stdio.h>
 2 #include <stdlib.h>
     /** 8-FUNCTIONS-PART 2 **/
 3
 4 void main()
 6 char ch;
 7
    ch=fun(); //function calling; there is no function declaration; so error
    printf("Character is %c\n",ch);
 8
 9
     getch();
10
11 char fun()
12 □ {
13
     char ch;
14
     printf("Enter character:\n");
15
      scanf("%c",ch);
16
     return ch;
17
18
Logs & others
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     Line Message
                 === Build: Debug in 8_FUNCTIONS_PART 2 (compiler: GNU GCC Compiler...
D:\1. C NO... 4
                warning: return type of 'main' is not 'int' [-Wmain]
                In function 'main':
D:\1. C NO...
D:\1. C NO... 7 warning: implicit declaration of function 'fun' [-Wimplicit-functi...
D:\1. C NO... 9 warning: implicit declaration of function 'getch'; did you mean 'g...
D:\1. C NO... 11 error: conflicting types for 'fun'
```

PROBLEM 9:

```
#include <stdio.h>
     #include <stdlib.h>
 2
    /** 9-FUNCTIONS-PART 2 **/
 3
 4
    char fun();
 5
     void main()
 6
    □ {
 7
     char ch;
 8
     ch=fun();
     printf("Character is %c\n",ch);
 9
     getch();
10
    L}
11
12
     char fun()
13
    □ {
14
      char ch;
      printf("Enter character:\n");
15
      scanf("%c", &ch);
16
17
      return ch;
18
19
```

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```
Enter character:
a
Character is a
```

PROBLEM 10:

```
#include <stdio.h>
 1
 2
     #include <stdlib.h>
     /** 10-FUNCTIONS-PART 2 **/
 3
     char fun();
 4
     void main()
 5
 6
    □ {
 7
     char ch;
8
     ch=fun();
 9
     printf("Character is %c\n",ch);
     getch();
10
11
    L}
     char fun()
12
13
    \square {
     char ch;
14
15
     printf("Enter character:\n");
16
     scanf("%c", &ch);
      return 'C';
17
18
19
```

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```
Enter character:
A
Character is C
```