

Department of Computer Science and Engineering
Amrita School of Engineering, Bengaluru
Topic: Functions

Practice Questions:

1. Programs discussed in the class: (function notes)

1. #include<stdio.h>

int welcome (); //Function declaration/prototype

int main() // main() starts the program execution

{

 printf("Before welcome\n");

 welcome(); //Function Call

 printf("after welcome\n");

}

int welcome() //Function definition

{

 printf("Welcome to C\n");

}

2. Finding out the square of a number

#include<stdio.h>

int square(int);

int main()

{

 int num, res;

 printf("Enter a number\n");

 scanf("%d", &num);

 res=square(num);

 printf("Square of %d = %d", num, res);

}

int square(int x)

{

 return (x*x);

}

3. Adding 2 numbers using functions. (all 4 ways : Function without argument without return type, Function without argument with return type, Function with argument without return type, Function with argument with return type)

4. Swapping 2 numbers call by value and call by reference (can be done after teaching pointers)

5. Write a program to find the Area and Perimeter of a square. Write functions to find area and perimeter.

6. Write a function program to find the maximum of three numbers.

7. Write a function program to tell whether a number is even or odd in the following lines:

- (i). Read a integer in main (ii) send that integer to a function named evenOdd()
- (iii) Function evenOdd(int x) takes x, checks and prints whether it is even or odd. It does not return a value.
- 8. Write a function program to print the absolute value of x .
- 9. Write a C program for bubble sort using function
- 10. Write a C program for linear search using function
- 11. Write a program to simulate calculator using functions. (With parameter and return type)
- 12. Write a function to find the Factorial of a given number using function.
- 13. Write a program to convert decimal number to binary number using the function.

- 14. Write a program to check whether a number is a prime number or not using the function.

Extra Questions: