
Lab. (7&8)

Functions

Answer the following questions

- 1) Where does the execution of the program starts?
 - a) user-defined function
 - b) main function
 - c) void function
 - d) else function

- 2) What are mandatory parts in the function declaration?
 - a) return type, function name
 - b) return type, function name, parameters
 - c) parameters, function name
 - d) parameters, variables

- 3) which of the following is used to terminate the function declaration?
 - a) :
 - b))
 - c) ;
 - d)]

- 4) What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
void mani()
void mani()
{
    cout<<"hai";
```

```
}  
int main()  
{  
    mani();  
    return 0;  
}
```

- a) Hai
- b) Haihai
- c) compile time error
- d) runtime error

5) What will be the output of the following C++ code?

```
#include <iostream>  
using namespace std;  
void fun(int x, int y)  
{  
    x = 20;  
    y = 10;  
}  
int main()  
{  
    int x = 10;  
    fun(x, x);  
    cout << x;  
    return 0;  
}
```

- a) 10
- b) 20
- c) compile time error
- d) 30

- 6) What is the scope of the variable declared in the user defined function?
- a) whole program
 - b) only inside the { } block
 - c) the main function
 - d) header section
- 7) How many minimum numbers of functions should be present in a C++ program for its execution?
- a) 0
 - b) 1
 - c) 2
 - d) 3
- 8) Which of the following is the default return value of functions in C++?
- a) Int
 - b) Char
 - c) Float
 - d) Void
- 9) What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;

int fun(int x = 0, int y = 0, int z)
{ return (x + y + z); }

int main()
{
    cout << fun(10);
    return 0;
}
```

- a) 10
 - b) 0
 - c) Error
 - d) Segmentation fault
- 10) From which function the execution of a C++ program starts?
- a) start() function
 - b) main() function
 - c) new() function
 - d) end() function
- 11) How many ways of passing a parameter are there in c++?
- a) 1
 - b) 2
 - c) 3
 - d) 4
- 12) What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
int add(int a, int b);
int main()
{
    int i = 5, j = 6;
    cout << add(i, j) << endl;
    return 0;
}
int add(int a, int b )
{
    int sum = a + b;
    a = 7;
    return a + b;
```

}

- a) 11
- b) 12
- c) 13
- d) compile time error

- 13) What will happen when we use void in argument passing?
- a) It will not return value to its caller
 - b) It will return value to its caller
 - c) Maybe or may not be return any value to its caller
 - d) It will return value with help of object
- 14) Where does the return statement returns the execution of the program?
- a) main function
 - b) caller function
 - c) same function
 - d) block function
- 15) Write a C++ program to find the square of any number using function.
- 16) Write a program in C++ to swap two numbers using function.
- 17) Write a program to check a given number is even or odd using function.
- 18) Write a program using function which accepts two integers and character (operator) as an argument and return its results based on the operator (+, -, /, *). Call this function from main () and print the results in main ().

- 19) Write a C++ program that reads a set of integers and then prints the sum of the even numbers using function.
- 20) Write a C++ program to Find Smallest Number using Function
- 21) Write a C++ program to Compute quotient and remainder of a number using function
- 22) Write a C++ program to Check Vowel or a Consonant character using function
- 23) Write a C++ program to Find All Roots of a Quadratic Equation using function

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$