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## **Lab. (10&11)**

### **Functions**

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Answer the following questions

Question One:

Write a C++ program to find the square of any number using function.

Question Two:

Write a program in C++ to swap two numbers using function.

Question Three:

Write a program to check a given number is even or odd using function.

Question Four:

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 ().

Question Five: Trace and find the following programs output

1)

```
1 #include <iostream.h>
2 int return7()
3 {
4     return 7;
5 }
6 int return9()
7 {
8     return 9;
9 }
10
11 int main()
12 {
13     cout << return7() + return9() << endl;
14 }
15 return 0;
```

2)

```
1 #include <iostream.h>
2
3 int multiply(int x, int y)
4 {
5     return x * y;
6 }
7 int main()
8 {
9     cout << multiply(4, 5) << endl;
10    return 0;
11 }
```

3)

```
1 #include <iostream.h>
2
3 void multiply(int x, int y)
4 {
5     return x * y;
6 }
7 int main()
8 {
9     cout << multiply(4, 5) << endl;
10    return 0;
11 }
12
```

4)

```
1 #include <iostream.h>
2 int add(int a, int b);
3 int main()
4 {
5     int i = 5, j = 6;
6     cout << add(i, j) << endl;
7     return 0;
8 }
9 int add(int a, int b )
10 {
11     int sum = a + b;
12     a = 7;
13     return a + b;
14 }
```

**Question Six:**

Write a C++ program that reads a set of integers and then prints the sum of the even numbers using function.

**Question Seven:**

Write a C++ program to Find Smallest Number using Function

**Question Eight:**

Write a C++ program to Compute quotient and remainder of a number using function

**Question Nine:**

Write a C++ program to Check Vowel or a Consonant character using function

**Question Ten:**

Write a C++ program to Find All Roots of a Quadratic Equation using function

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