Time:	50	Min	5
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Name:

CS 101 Quiz 05 Section D

Marks: 32

Registration Number:

1. Complete the following program to find largest element in an array by **defining and calling a function** that performs the task of finding largest element in the array. Your **function must pass the array and return** the value of the largest element in the array.

```
#include <iostream>
using namespace std;
int findMax(int[], int); // Function prototype
int main() {
   const int arraySize = 10;
   int array[arraySize] = \{32, 12, 87, 25, 4, 45, 87, 33, 67, 1\};
   int max = findMax(array, arraySize);
   cout << "\nMax = " << max << "\n";</pre>
   return 0;
}
// Function definition
int findMax(int array[], int size) {
   for(int i = 0; i < size; i++) {
        if(array[0] < array[i])</pre>
             array[0] = array[i];
   return array[0];
}
```

1- What is the correct output of the following code? Or mention if syntax error.

```
int array[5] = \{1,2,3,4,5\};
int x = 5;
cout << array[x - 1];
```

5

2- What is the correct output of the following code? Or mention if syntax error.

```
int array[5] = \{2,4,6,8,10\};
int x = 5, y = 4;
cout<<array[x % 4];
```

4

3- What is the correct output of the following code? Or mention if syntax error.

```
int array[4] = {0,3,6,9};
int j = 0;
cout << array[j++];</pre>
```

0

4- What is the correct output of the following code? Or mention if syntax error.

```
int array[4] = {0,2,4,6};
int i = 1;
cout << array[--i];</pre>
```

0

5- What is the correct output of the following code? Or mention if syntax error.

```
int array[] = {1,3,8,15};
cout << array[array[1]];</pre>
```

15

6- What is the correct output of the following code? Or mention if syntax error.

hello

7- What is the correct output of the following code? Or mention if syntax error.

```
char string[] = "final exam";
cout << string;</pre>
```

final exam

8- When the following program is executed, the user enters "final exam" at the prompt. What will be printed on the screen (program output), as a result of the **cout** statement?

```
char string[20];
cin >> string; //The user enters "final exam" at the prompt
cout << string;</pre>
```

final

9- What is the correct output of the following code? Or mention if syntax error.

```
void FunArray1( int &b, int sizeOfArray ) {
    b += 2;
}
void main() {
  int b [10] = {1,2,3,4,5,6,7,8,9,0};
  int i = 0;
  FunArray1( b[i] , 10 );
  for (i = 0; i < 10; i++ ) {
      cout << setw( 4 ) << b[ i ];
  }
}</pre>
```

Sytax error

10- What is the correct output of the following code? Or mention if syntax error.

```
void FunArray2( int b[], int sizeOfArray ) {
  for ( int j = 0; j < sizeOfArray; j++ )
      b[ j ] *= 10;
}

void main() {
  int b [10] = {0,1,2,3,4,5,6,7,8,9};
  FunArray2( b, 10 );
  for (int i = 1; i < =10; i++ )
      cout << setw( 4 ) << b[10-i];
}</pre>
90 80 70 60 50 40 30 20 10 0
```

11- What is the correct output of the following code? Or mention if syntax error.

```
void FunArray3( int b[], int sizeOfArray ) {
   for ( int j = 1; j <= sizeOfArray; j++ )
        b[ 10-j ] = j;
}

void main() {
   int b [10] = {0,1,2,3,4,5,6,7,8,9};
   FunArray3( b, 10 );
   for (int i = 1; i <= 10; i++ )
        cout << setw( 4 ) << b[10-i];
}

1 2 3 4 5 6 7 8 9 10</pre>
```

12- What is the correct output of the following code? Or mention if syntax error.

```
void FunArray4( int b[], int sizeOfArray ) {
  for ( int j = 0; j < sizeOfArray; j++ )
      b[ j ] *= 10;
}
void main() {
    int b [10] = {0,1,2,3,4,5,6,7,8,9};
    FunArray( b[10], 10 );
    for (int i = 1; i <= 10; i++ )
         cout << setw( 4 ) << b[10-i];
    getch();
}</pre>
```

Syntax error