BIL 104E QUIZ 5 (Section B)

- 1) Write C++ statements to do the following(30)
- a. Declare an array alpha of 15 components of type int.

Int alpha[15]

b. Output the value of the tenth component of the array alpha.

Cout << alpha [9]

c. Set the value of the fifth component of the array alpha to 35.

alpha[4]=35

d. Set the value of the ninth component of the array alpha to the sum of the sixth and thirteenth components of the array alpha.

alpha[8]=alpha[5]+alpha[12]

e. Set the value of the fourth component of the array alpha to three times the value of the eighth component minus 57.

```
alpha[3]=3*alpha[7]-57
```

f. Output alpha so that five components per line are printed.

```
for(int i=0; i<=14;i++){
If(i%5==0){
  cout<<endl;
}
  cout<<alpha[i]<<"";
}</pre>
```

2) Suppose list is an array of six components of type int. What is stored in list after the following C++ code executes? (30)

```
list[0] = 5;
for (int i = 1; i < 6; i++)
{
    list[i] = i * i + 5;
    if (i > 2)
        list[i] = 2 * list[i] - list[i - 1];
}
```

```
Index Value
0 5
1 6
2 9
3 19
4 23
5 37
```

3) Write a C++ function, sumArray, that takes as parameters an int array and its size and returns the sum and average of the elements in the array. (40)

```
void sumArray(int array [], int size){
    int sum=0;
    for(int i=0; i<size;i++){
        sum=sum+array[i];
    }

    cout<<"Sum: "<<sum<<endl;
    cout<<"Average:"<<sum/size;
}</pre>
```