Name:	Adm. No.:	Class:
Duration: 75 min.	Lab Test 4 (Sample)	Marks:
Part 1 – Short Questions		(6 marks each)
Determine the missing co- Hello on the screen.	des in the following segment that allows	s the program to display
char msg1[8];		
strcpy(cout << msg1;	_,);	
2. Determine the missing coo is an integer)	de that will display all the values in elem	ents with odd subscripts. (i
char msg[5] = {'N','i','a	g','h','t'};	
for (cout << msg[i])];	
3. Determine the output of t	the following code segment:	
int values[2][2] = {2,4 values[1][0] = values[cout << values[1][0];		
Ans:		
4. What is the value of y afte	r the following code segment is execute	ed? (i is an integer)
double results[5]={2.5 for (i=2;i<5;i++) if(y < results[i]	5, 0.4, 1.7, 5.5, 6.4}, y=8.5;]) y=results[i];	
Ans:		
5. The following code segme missing code.	nt searches for '@' in the last four elemo	ents of the array. Fill in the
char gamma[8]; int i, count=0;	(Not important)	
// Other statements for (
	/	array is " << count:

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Part 2 – Coding (70 marks)

A company was engaged to check if the air conditioning system in a room was working in optimal setting. Various reading of the room temperature were taken for a period of time. A C++ program is required to analyse the data. You have to download the given template and complete the parts stated below. Do NOT change function or array names and make sure your codes are indented properly. Your output must be exactly the same as the sample output shown below.

Loops must be used when processing arrays. You have to upload the source code at the end of the test.

Part 2a (20 marks)

The following are the room temperatures gathered at regular intervals:

22.3, 23.4, 23.1, 22.5, 23.1

Complete the program to allow the user to enter the temperature readings into the program.

Part 2b(20 marks)

Add a function **display** in your C++ program to display all the temperature readings.

Part 2c(30 marks)

Add a function **avg_Temp** to calculate the average temperature. The function MUST return the result for display in the **main** function.

```
Room Temperature Analysis

Enter temperature: 22.3
Enter temperature: 23.4
Enter temperature: 23.1
Enter temperature: 23.1
Enter temperature: 23.1
Enter temperature: 23.1
Average temperature is: 22.88

Program runs according to requirements.

Lecturer Sign:

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```

~ End ~

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