Class Test 5 (17 marks)

- 1. Which of the following is implicit type casting: (1)
 - a. int a = (int)5.75;
 - b. float b = 7;
 - c. int c = static_cast<int>(4.5);
 - d. char d = 'A';
- 2. What would the output be: (1)

```
int a = 10;
float b = 4.0;
cout << a / b;
```

- a. 2
- b. 2.5
- c. 2.0
- d. 2.25
- 3. What would the output be: (1)

```
int x = 3;
double y = 3.5;
cout << x + y;
```

- a. 6
- b. 6.5
- c. 7
- d. Error

4.	a.	float be implicitly converted to an int: (1) Yes No	
5.		is the most suitable data type to store the distance between two cities (in eters with decimal precision)? (1)	
	b. c. d.	int float double char bool String	
6.	What	will be the output: (1)	
nt as	<< ascii	ue = letter; i_value;	
	b. c.	67 'C' 3 Error	
7.	What	data type would be appropriate to determine if a student passed or failed?	(1)
	b. c. d.	int float double char String bool	

8.	What data type would be appropriate for a student number? (example: u1975321) (1)
	 a. int b. float c. double d. char e. bool f. String
9.	Explain the difference between explicit and implicit type conversion and provide examples of each in pseudo code. (5)
10	. Explain why and int can be implicitly converted to a float but a float can not be implicitly converted to an int. (4)