

Quiz # 6

Question#1

5*4=20 marks

Consider the following Class Test and Write down the output/errors of the given code segments :

<pre>#include<iostream> using namespace std; class Test { private: int i; public: Test(int i = 0) { cout << "Cons" << endl; this->i = i; } Test(const Test & ref) { cout << "Copy Cons " << ref.i << endl; } Test operator=(const Test &ref) { cout << "operator =" << endl; i = ref.i; return *this; } }</pre>	<pre>Test& operator=(const int i) { cout << "operator =" << endl; this->i = i; return *this; } Test& operator+(Test & ref) { cout << "operator +" << endl; Test t(i + ref.i); return t; } ~Test() { cout << "Des" << endl; } };</pre>	
<pre>int main() { Test t1(10); Test t2; t2 = t1; t1 = 4; }</pre>		
<pre>int main() { Test t1(10); Test t2; t1 + t2; }</pre>		
<pre>int main() { Test t1(10); Test t2; Test t3 = t2; t3=t1 + t2; }</pre>		
<pre>int main() { Test t1(10); Test t2; Test t3 = t2; t3 = (Test)4; t1 = 12; }</pre>		

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Question # 2**[5 marks]**

Write down the definition of the following function of Class Matrix.

Matrix operator+(const Matrix & ref);

Add the calling object and received object and return new Matrix object.