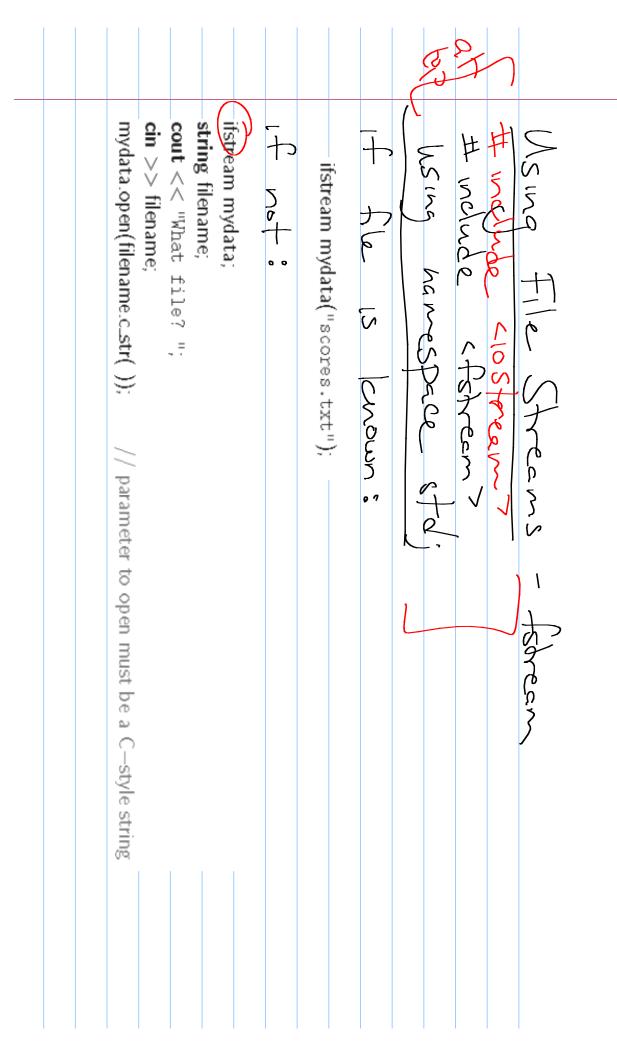
Note Title - HW1 due Friday throunce ent Look for - Classes in (7++ モシ <u>ç</u> website SOOK 9/8/2011

actina Jet 1 rext get live string up to Q person: turction (byt not which including Mare! Scres

int age;
string food; cout << "What would you like to eat?
getline(cin, food);</pre> cout << "How old are you? ";
cin >> age; tablem: Input ζ, 7, Steam) Oa S



			Committee and the committee an	ofstream datastream("scores.txt" jos::app):	Jo append:		Think in In Python.	ξ.	By default without to a file overwrites	otshesm	7

Much Kacd ins which ならん とううろ More also Suche complex reading of writings

		(1,50/cver Age= "42".	ac 142	ss >> displayedAge;	SS << age;	string displayedAge;	int age(42); (Dx: (ashor between numbers of oxins.	String Streams

Cont << " 6/36/14 P = 7 Mais (1 1 1 b = (6) 2 7 2 destroyed variable \vec{N} ンソ \ \ Scopes: valle Q V V ۸ ۸ 050 070 10xx01x

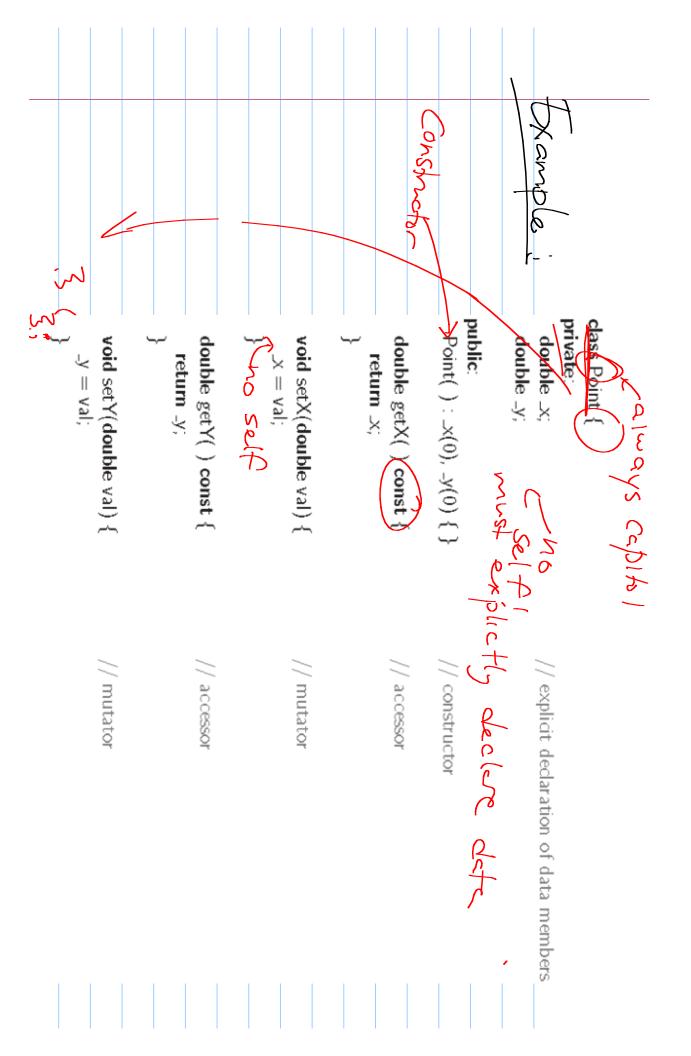
1 commits cont << "The log of"<< value << " - a value Counter +1 Host X= value , X>2; X=X/ counter 10: x is destroyed 22 "The amount left was "29 << endel. 100005 15 11 CC Counter

Arrays as inputs to dunchous 000 <u>5</u> T evendum (int sum +11 andray 5 T 1 0 San 11 Oc たりしゃ SZZ S Sum % 2 0 5 tanchas るとのろ Values

Doesnit Cell: Do izt (even Sum (my Array, length)) Cout 12 "The sum is even" "cend! actual 200 ماماك 9 mc ces these 1 2005 anay but can عر stari

				_(7	20 20		What is a class/	(lasses	

Vever: string("Hello") greeting; News: X ample: reation Declering string s(); string greeting("Hello"); string s, Instance Collins. ophical of a c/255 a constructor 9 m Tusc コンう & initalize



Cosses. Niv declared, not 201 $\sqrt{}$ Inside a turchen. Chy Mould Crost C INSIDE Drivet used Ē $\overline{\mathcal{V}}$ 5 C/485 constructor Treto aplicity 2 2

ĺ 1 NO Conspructor $Point(double\ initialX=0.0,\ double\ initialY=0.0): x(initialX), y(initialY) { }$ といろいろ Net S Conty capital for Point(): x(0), y(0) {} twochos resides 270 <u>ک</u> کر ere with Q Z Q T

Access control ento ree differences athemies, alater bit more complex of "this" COMPILO public versus -5 x+ 1257 Scopes 75M nssje のころお S

						void setX(double val) $\{ x = val; \}$	double getX() const { return _x; }	5) Accessor versus mutabor	

			{		
<u></u>					Down of the second of the seco
}; // end of Point class (semicolon is required)	<pre>double operator*(Point other) const { return _x * otherx + _y * othery; }</pre>	Point operator (double factor) const { return Point(X * factor, _y * factor); }	Point operator+(Point other) const { return Point(X + other.X, y + other.y);	<pre>void normalize() { double mag = distance(Point()); if (mag > 0) scale(1/mag); }</pre>	double distance(Point other) const { double dx = _x
uired)			(A-7)	// measure distance to the origin	only worde che
\					other get XC)

D) mportant " using operator+: In main: 1x + other 1x ho may versions of x: Sony 1 allowed rear (15 n Stance (X) the class LIXI TOMOS. of Hoest Sy NO NSIDA

Additional Functions (Notin the class Contrr x ~ V ~ rod

```
out << "<" << p.getX( ) << "," << p.getY( ) << ">>"," << p.getY( ) << ">>";" << p.getY( ) << ">>";" << p.getY( ) << ">)";";
                                                                                                                                                                                                                                                                     Point operator*(double factor, Point p) {
                                                                                                                                                                                                                                                                                                                          / Free-standing operator definitions, outside the formal Point class definition
                                                                                                                                                                                                                return p * factor;
                                                                                                                                                                                                                // invoke existing form with Point as left operand
    // display using form <x,y>
```

return out;

plad Lake

1 other functions	Public:	Class Point ?	Separate class the :
	fourt. CPD -		