Const Member function

const jnt x=5;

x=10; -error

{
public:

int x, y;

Addition(int a, int b)

{
x=a;

y=b;

int add() const

{
yeturn x+y,

Array of Objects

Addition a [5]; -> Default constructor needed to make array unintialized abject.

Addition a [5] = { Addition (3), Addition (4,5), Addition (6)},

$$) \times = 3 , Y = 0$$

3)
$$x = 6$$
, $Y = 6$

$$(4) X = 0$$
 , $Y = 0$

$$5) \times = 0 / Y = 0$$

Ly we can intialize array object using multiple constructors and remaining object will call default constructor.

Abstract Data Type (ADT)

ADT Class stack int s[100]; public: void push(int x) { Pop() int int is Empty () int Tos() 3;

the main ()

{

Stack a;

a.push(5);

a.push(10);

5

a.pop()

if (a.istmpty())

}

return 0;

3

Operator Overloading

$$2+2 = int + int$$

 $2.5+3 = floot + int$
 $3+2.8 = int + floot$
 $2.5+2.7 = floot + floot$

Time + Time

Operator

Overloading

class Time $\begin{cases} \text{int hour, min:} \\ \text{int main()} \end{cases}$ Time t1, t2, t3; $t1 = t2 + t3; \longrightarrow \text{will it work} \end{cases}$

Time Operator + (Time t)

{

time temp;

int m = min + t.min;

temp. hour = hour + t. hour + m/60;

temp. min = (min + t.min) % 60;

return temp;

3

T1 = £2+t3; \(\bullet_1 = \tau_2 + \ta_3 + \ta_4; \bullet_1

The overloaded operator must have atleast one operand that is user defined type. This prevents you from overloading operators for Standard types.

You can't use an operator in a manner that violates the syntax rules for the original operator.

For ex:- You can't overload the % operator, so that it can be used with single operand.

