DAY-3

Date
Page No.

structure :- class concept
function
storage :- auto, static, extern & register

→ We can make own header file

include<stdio.h>
include<conio.h>
include "abc.h" → own header file jo phle hi bna lena chahiye.

* Structure

# Struct tagname
{
char nam[30];
int age;
};

void main()
{
clrscr();
struct tagnam t = {"Ram kumar", 25};
printf("%s %d", t.name, t.age);
getch();

# printf("enter values for object t1");
scanf("%s %d", t1.name, t.age);

printf("%s \t %d", t.name, t.age);

*sptr = *&t

Date / /
Page No.

#
```
struct teeram
{
char name [30];
int age;
};
void main ()
{
struct teeram t = {"india", 74};
struct teeram *sptr = &t
clrscr();
```

pointer to structure

```
printf ("%s \t %d\n", t.name, t.age);
printf ("%s \t %d\n", (*sptr).name, (*sptr).age);
printf ("%s \t %d", sptr->name, sptr->age);
getch();
}
```

O/P teeRam 74
" "
" "

Date / /
Page No.

* Class Teekam
{
// empty class
};

void main()
{
clrscr(); Teekam t; cout << size of(t) <<end
cout << Size of (Teekam);
getch();
}
O/P 1 1

When empty class is define & we print out O/P the ans is non-zero value i.e 1

# class
{
public;
int x;
} t1 = {5};
void main()
{
clrscr(); t1.x
cout << t.Teekam << end l;
get();
}
O/P : 5

Static belong to class
non static : object

Date / /
Page No.

# class // member (it does not allocate memory
{
variable // data member - properties
fun^n // member fu^n - behaviours
};
visibility modes :
private : // by default, access only from within class member fun
public :

# class Tarkam
{
public :
static int x;
};
void main ()
{
clrscr ();
Tarkam t = {5}; // object creation
cout << t.x ; //object name, (dot operator) member name public
getch ();
}

Date
Page No.

~~Overloading~~

# void ~~display~~ main ()
{
static int x; // default value of static int is 0.
}

Constructor : Special member fu^n
has same class name & constructor name
It doesn't have any return types(explicity
~~by compiler~~

- default constructor
- copy "
- assignment "

Types

1) default
2)
3)

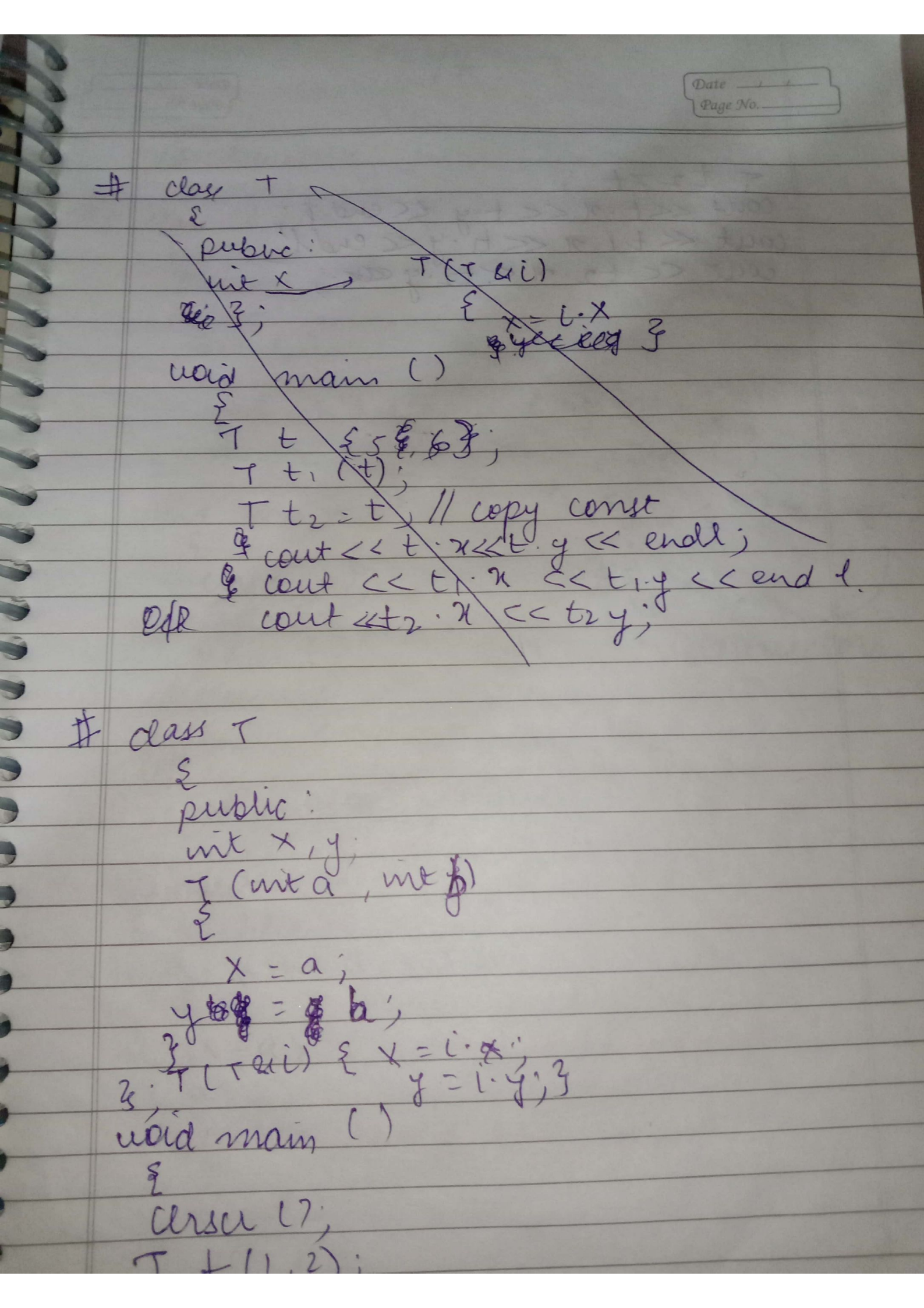
```
#class T
 {
 public:
 T()
  {
  cout<<"hello";
  }
};
void main()
{
 T t;//implicit)
 T t1=T();//explicitly)
}
```

O/P hello hello

```
# class X
 {
 public:
     int x
};
int main
{
 X a={10};
 Xb=a;   // Xb = a; // copy const

    cout << a.x << "  " << b.x;
    return 0;
    }.
```

O/P 10 10


Date
Page No.
# class T
{
public:
int x;
};
void main ()
{
T t {5, 6};
T t1 (t);
T t2 = t; // copy const
cout << t.x << t.y << endl;
cout << t1.x << t1.y << endl;
cout << t2.x << t2.y;
T(T &i)
{ x = i.x
y = i.y }
# class T
{
public:
int x, y;
T (int a, int b)
{
x = a;
y = b;
}
T(T &i) { x = i.x;
y = i.y; }
};
void main ()
{
clrscr ();
T t (1, 2);

```
T t2 = t;
cout << t.x << t.y << endl;
cout << t1.x << t1.y << endl;
cout << t2.x << t2.y ;
```