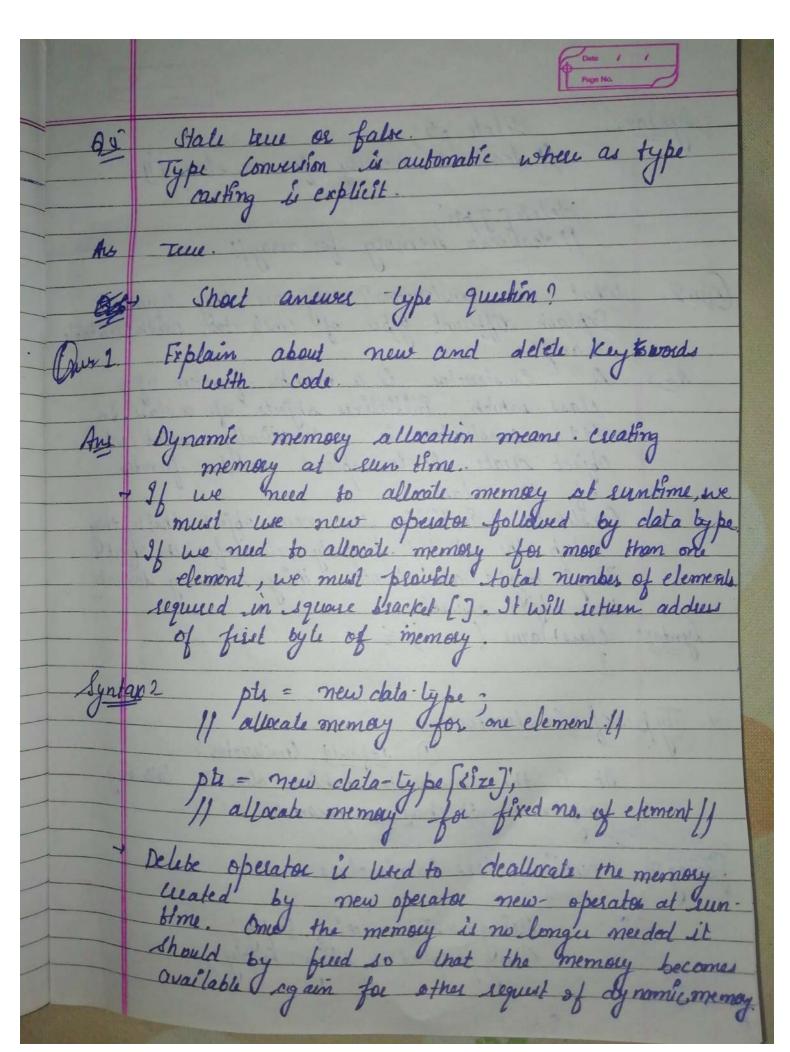
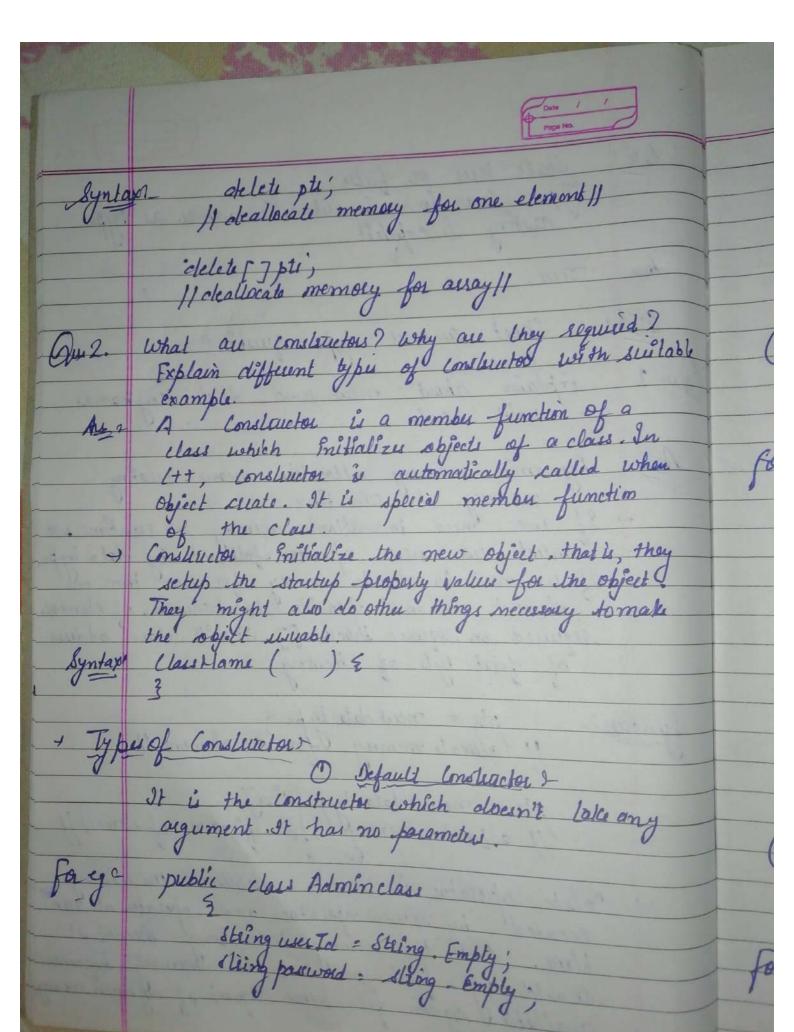
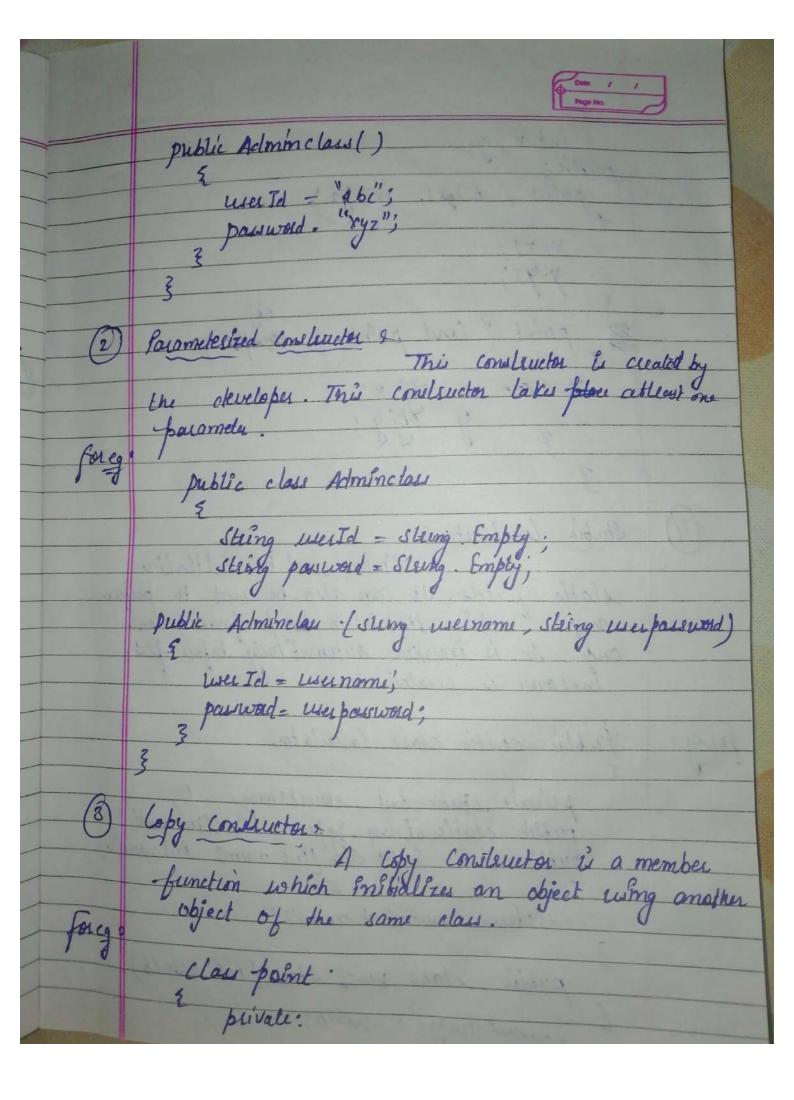
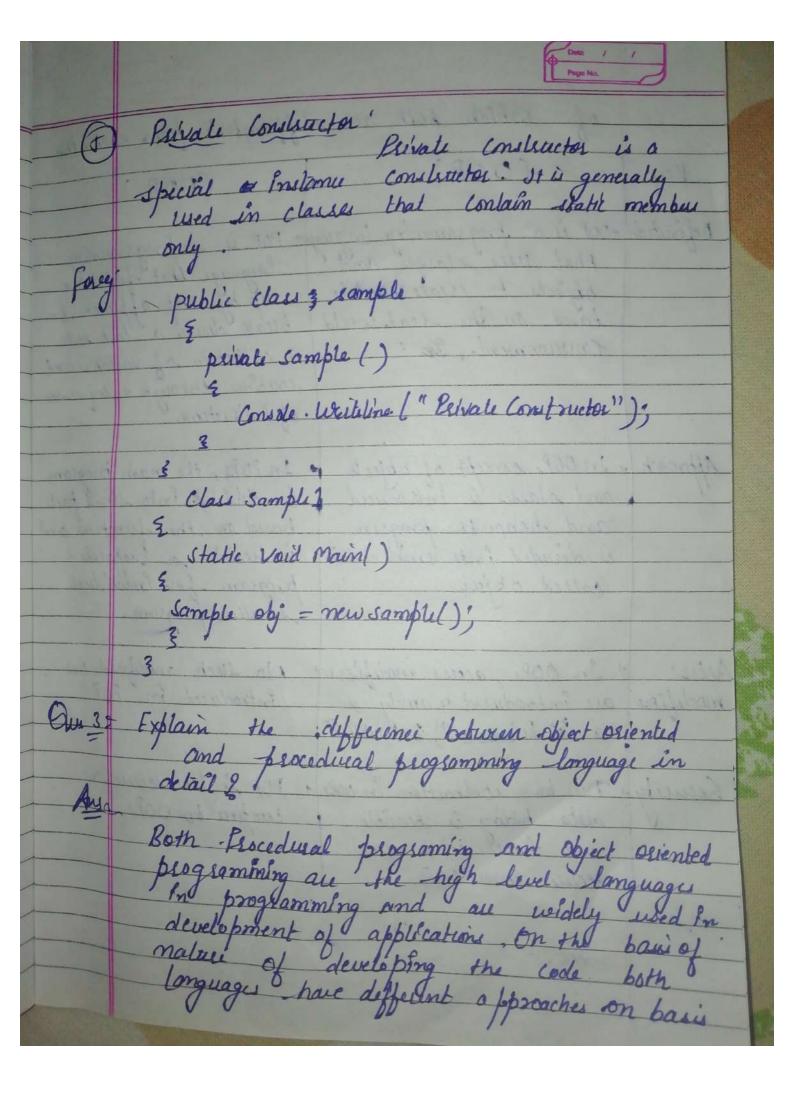
	Duta / Page No.
	Assignment = 2
9.1	Local variables are stored in an area Called
An	stack
9.2	Using namespace std; class Base();
	using namespace std:
	class Base 1:
	class Dersued; public Basel);
	Prt main ()
	3
	Base * bp - new Derived.
	Base *bp - new Derived; Derived Ap: new Base;
	3
,	
thy	Compiler : Esses in Alme "Derived adp = new Base;"
	The same,
0.3	When the inhacilance is private : the boilete
	When the inhacitance is private; the private methods in base class are in the
	desired class (in (+t).
44	Inaccesible.
m	
0:4	Which of the following is true?
Au	. +1
My	a) The number of times destructor is talled depends upon number of objects created.
	depends upon number of spicel to talled
	Jette Celated.

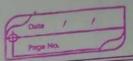






public; point (intext, int 12) Stable Constructor 9 It is used to Instialize slatte fields. It can also be used to perform any action that is to be forformed only once. It is invoked automatically before first instance is waled. · Public static class Calculator psivate static ent soultstorage > 0; public static string Type > "Asethematic"; public slatic ent- am (ent mum), ent num) public static void store (int sesult).
- swult-storage = swult;





		Page No.	
	of which both are a	leffundiate from eachother	
Key	(OOP)	(POP)	_(
Definition	2009 is a programming longuage		
	objects to create models based on the real world	step by step appearach to break down a tast into	
	Envuonment, In:	a collection of variables and southers the ough a sequence	
	The state of the s	of Invaluations.	
Approach	and classes is introduced	is divided into small parts	
	is divided into small chunk	is 4taled as separate.	
	called object	smaller frogsom.	
Acius modifiés	ose introduced namely ou a an Publican,	Alo such modifiels use Entroduced in POP.	
	acquired the Remoderate to the		
	clata hiding & possible and hence it & more	compare by DOPE.	
1	secure than 90P		1
1	The state of the same	The state of the s	

Long Answer Type Guestion. Explain the type of polymorphism with Types of polymorphism? (2) Runtime Compile Times * Function overlding Function overloading. Wirtual function operator our boding D'Compile teme folymoiphism In this, a function is called at the time of brogram compilation: late call this type of polymorphism as early binding or static binding Finding Durloading Function overloading means In Ctl, a single function is used to perform many laster with the same name desferent types of arguments. In furction overloading function I will call at the time of program? compilation. It is an example of compile. Time Class Addition 3 public: int ADD (Int x, inty)

2. sebuen x+4.

Int ADD () cout ([c[[endl; Pat main (void) Addition obj. Cout (5 obj. ADD (120, 3) (5 end); etun 0; Operator Dueloading) Operator overloading means defining additinal last to operator without charging its actual meanling. The purpose of of spesa overloading & to securite a specie meaning to the usu-defined date types Advantage of operators overloading is to perform alfferent operations on the same Class A ?

Steing x:
public

A () 3 3 () (A (String i) cout (5" The sesult of the addition of two objects is A 02 ["back"); 2. Runtime Polymosphim 9 In this, functions are Called at the time the program execution. Hence, I'd is known as late binding binding.

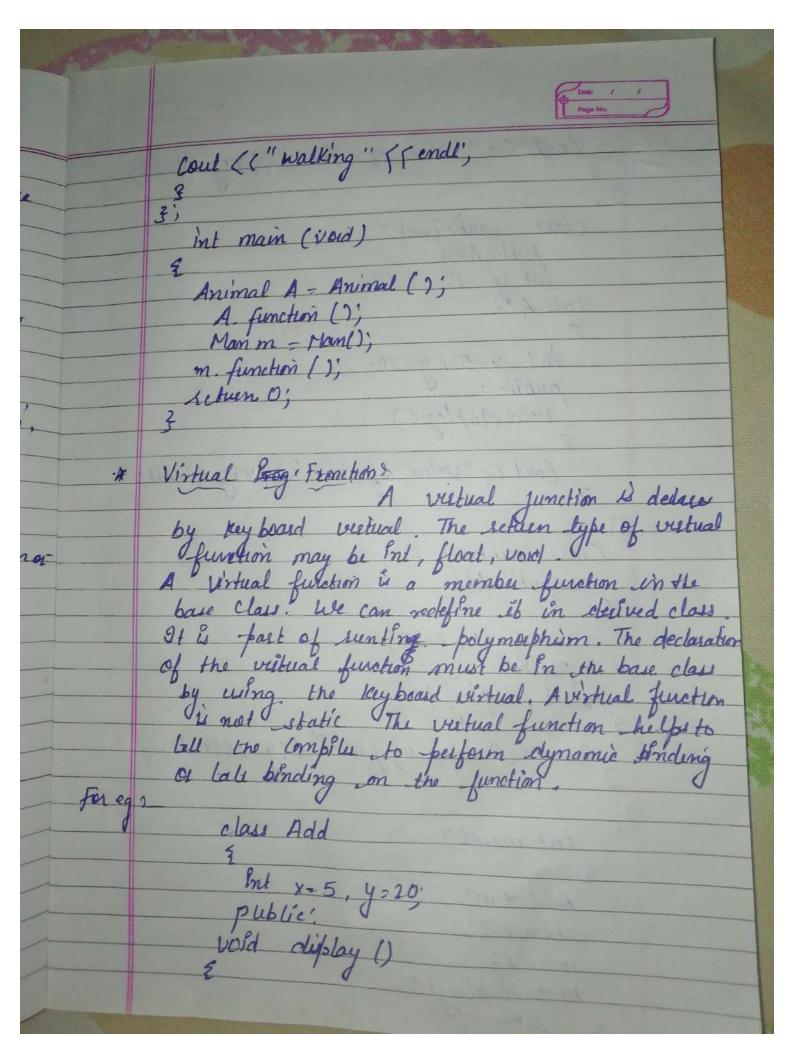
Function oversiding is a past of suntime polymorphism. In function oversiding, more than one method has the same mame with different type of the parameter list. parameter list.

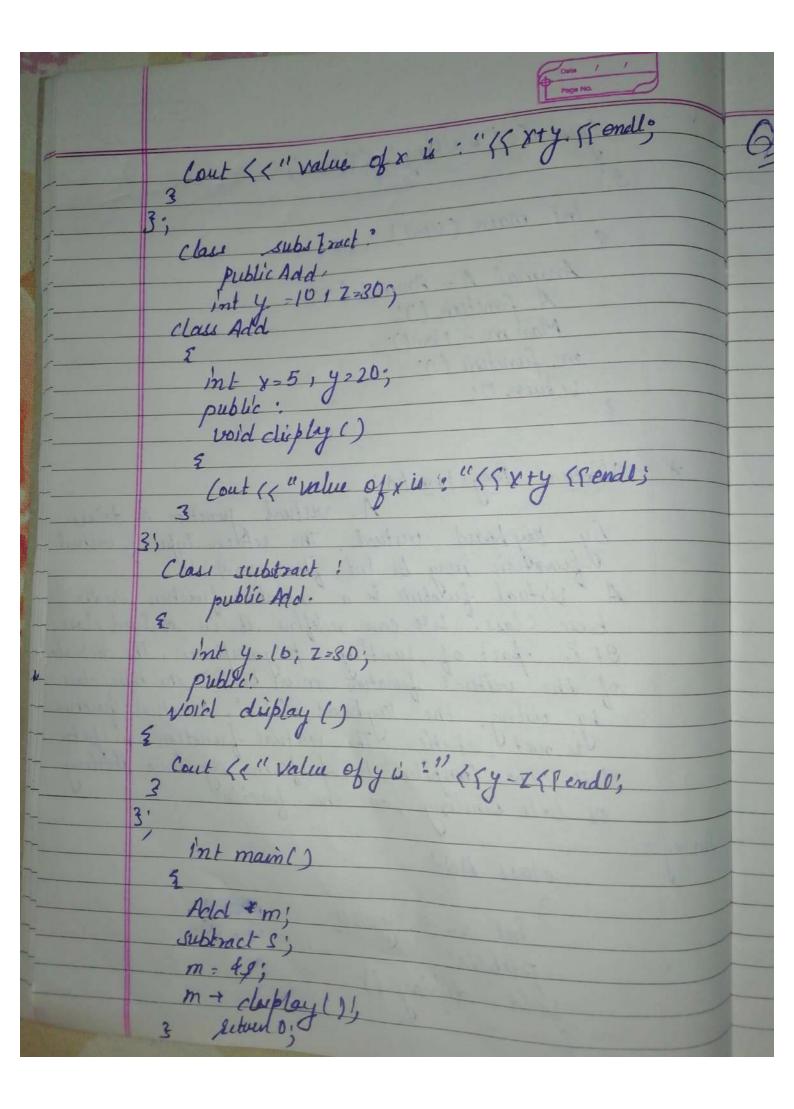
It is achieved by using virbual furction and

pointus. It providu slow execution as it is Known at the sun time. Thus, it is more as flexible all the strings executed at the sun time In this, we give the new definition to base function In class. At that time, we can say the base function has been oversidden. In can be only possible in desired class. In function oversiding we have two defitions of the same function. one in the super class and one in desired class. The decision about which function definition require calling happens at suntime. that is the season we called it suntime polymon Cout ([" Eating m' ([endl; class Man: public Animal

public:

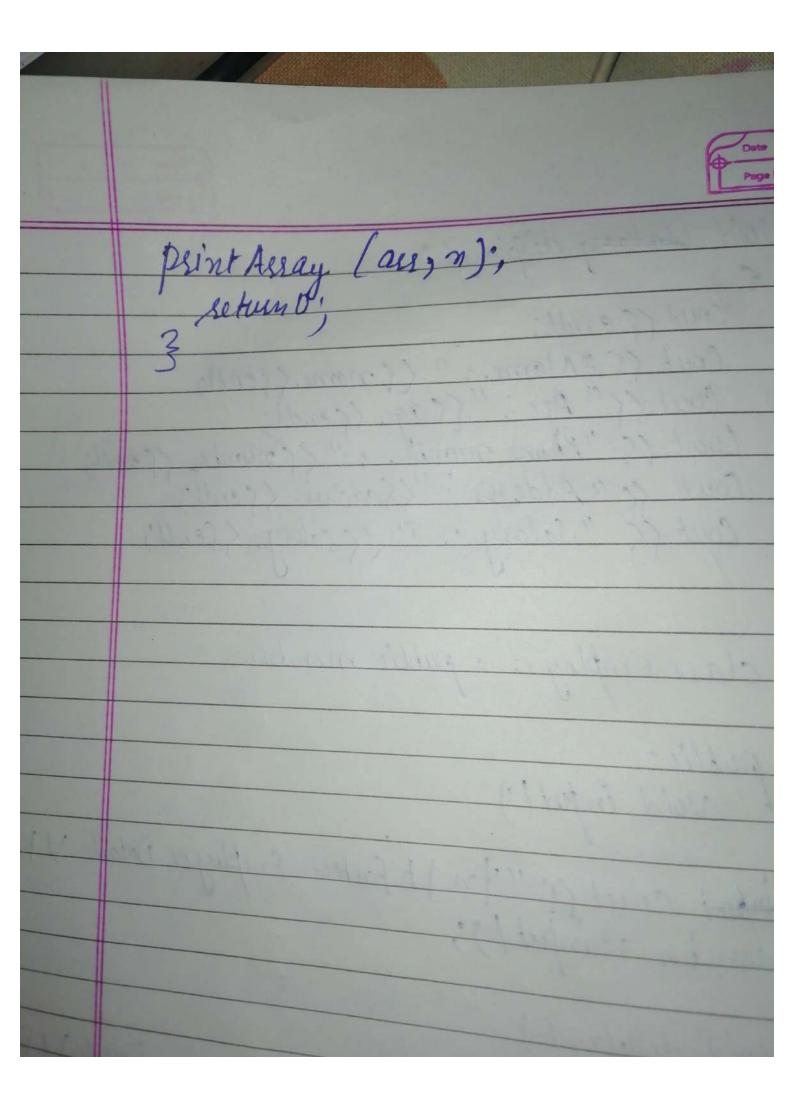
void function ()





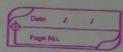
include (bits /stdc+t.h) void fost (intal7, intals eine) int los = 0; int hi= as siz -1; Int mid = 0; while (mid (= hi) { Switch (a [mid] ? Cas 0', swap (a[lit+], a[mid++]); midt+ buale', Case 2: Swap (o[mid], o[hi--]);
blak;
3 3 3 Void print Assay (intaus [], intaus sin) for (inti=0; icass size; i+t)

cont (constit ss" "; Int main () intauf = {1,1,2,2,0,0,2;1,23; int n = size of (als) / size of (als [0]); east (ou, n); Cout (ousay after sorting: " (sendl;



```
E\cop\sorting.cop - [Executing] - Dev-C++ 5.11
   F:\cpp\sorting.exe
   array after sorting:
   001112222
   Process exited after 0.03282 seconds with return value 0
Pro
   Press any key to continue .
                                       MIGHT:
                      19
                                       break;
                      20
                                   case 2:
                      21
                                       swap(a[mid], a[hi--]);
                      22
                                       break;
                      23
                      24
                      25
                      26
                           void printArray(int arr[], int arr_size)
                      27
                      28 🗏
Compiler Resources Compile Log Debug Find Results X Close
                     Compilation results ...
                     - Errors: 0
                     - Warnings: 0
   Shorten compiler paths
                     - Output Filename: F:\cpp\scrting.exe
                     - Output Size: 1.83838069915771 MiB
```

Ocho # imelude (bits Istdett.th) using namespace old; class member & Charnome [20], adderes [40]; clouble number; intage; public Int salary; Void Input () Cout (endl; Cout & "Mame", " Stendt; Cont (["Age o " ((endl; cin 77 age Cout (Phone number : 1) cin 77 number;
out ((. "Addeus:" ((endl) Cout ((" Salary; " endl; Cin 77 Salary



```
Void solary display ()
     cout ( cnell;
     Cout ( " Mome: " ( nome ( gentl;
     Cout ((" Age: " ( ( age ( cend!
    Cout ( "Phone number;" ( number ( end!;
    Cout ( "Adders: " ( Graduis ( cond);
    Cout ( "Salary . " ( salary ( send);
  class employee : public member
 Void duplay ()
Void grint salary ()
 lout (c" |n salary of the member " " ssalary so
  int main! ) 3
 enphoyee e
enphoyee e
e daplay 17,
                e. print talay ( ), 3
```

