

floo

19 K-1043

o). Error is this that class B can not access the variable x of class A.

h). class A?

Int x;

display()? cont << x;}

friend class B;

class B?

A as

display 12 cont < a.x; 3

4

a). class shape {
int x;
public:

Shape (Port a): n(a) { }

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3

class circles virtual public shape ? int ys Chicle (int a, int b) & y(a), Shape(b) class Square: Virtual public stage ? public: Square (int a, int b) = z(a), Shape (b) & 3 33 class circle on square: public circle, public square int a: publics Chicle on square (ent x, int y, int z, int a): a (a), circle (y,x),
Square (z, x) { } 3

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Q #2

Answer: One of the major critisim on friend is that ut can have the access of all data whether private or protected which is against the method of encapsulation for hiding relevant data from others.

(b)

Answers Decause the object of abstract class can not be made and an abstract is a base class usually so it may have some features of which will be needed in child. So for that purpose partial virtual function is required and through this "In mains a pointex of abstract class can be made".

These are the purpose of partial virtual function.

Jan 19K-1043 (c) Answers This junction is not a pine virtual function as it require to be milialise with zero. Therefore this virtual penetion will not make class abstract (d) Answers: It a child class inherit its parent class using public access modifier then the methods and members of parents public data will become public in child also. public private => private + > protected => protected access modifies > public => public (e) Answer: We can not overload a function last statement to be executed, furthermo it will completely change the meaning of function that's why it is not done

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Answers The extension of C+P is not require because it replaces the line containing the # include header files with its complete content of the files included. In memory, the files are converted in object file which have every content of directives in the used file.

() # 4

class Blue Tech? protected: int year of manufactured;
int model;
public: Int year (void) { return (this > year of -

Blue teach (int y, int m) {
year-of-manufactured = y;
model = m; }

class led: public Blue Tech ? privale:

int screensize; Int suprumaps;

Loln 19K-1043 public: led (Port a, int b, int c, int d): screensice (a), suprumaps (b), Blue Tech (c, d) } class Mobile's virtual public BlueTech private 8 int comesasesolutio; public : Mobile (int a, int b, int c): camera resoluti (a), Bluetech (as b) { Int yer (roid) & return (this - year of manofacted); 3; clars Tablel: public Blietech ? int screensize; public: Tablel (int a, int b, but e): 1 screensice (a), Blue Tech (a, b) {} Selm 1911-1043

class Tracking : virtual public Blue Tech Port becevracy;

Tracking (int a, int b, int):

Occuracy (a), BlueTech (b, e) ? 3
int year (void)?

return (this -> year of mandadus)

3; firiend class Red Tech;

class Smart Ring: public Mobile, public

Tracking

Smart Ring (int a, int b, int c, int d)

Mobile (a, b, c), Tracking (b, d) ?;

public:

Procking & Tracking & T

Void checker (variety) & T

Try?

If (T. year-of-memberated

> 2010)

Coul & "OR"

Leln 19K-1043 throw (T. year of manofactured); & catch (T. year of manufactured) & coul « "earlier"; } template < class T> void item_Sort (Tha, T&b, 780)} if (int 7, 4, 2) x = a. year(); y = b. year(); Z= c. year (); if (a>b x>y & 8 x>z){ coul ex " pa is receil"; } if (y > x 88 y > z) {

coult & "b is recet"; }

if (z > x 88 y > z) {

coult < "c is recel"; } else coul ec " Other are not recent";

1914-1043 Falmer Q#3 class Emp?
Int ID; static int count; public: Emp (inta): ID (a) ? } virtual void post_vacancy () = 0; friend class candidate; void receive app (candidate & c); void select (candidate & c); ~ Emp () { cant++; } void operator < (condidate & c); class Edu & public Emp {
that recompus; Edw (int a, int b) & n campus (a),

Emp (b) { } (red ex "}

Leach

1.01 \$ void post-vacang (void) {

coul < "teaching years and

ability to cope with pressu"; 3 };

Lalne 1914-1043 class Pharma: public Emp? public: Pharma (int as int b) & annul bud (a) Emp (b) { 3 void post-vacancy (void) ? cout ec" good analytical skill"; class Bank: public Emp? public: Bank (int a, int b) & branch(a), Emp (b) & 3 void post vacancy (void) ? cont e e u Grood communicate still: 3 Public: class Const: public Emp? Const (int as int b): project (a), Emp (b) & 3

void post-vucany (void) ? cout ic " abilily to work in remote areas"; 5

Lador 1916-1043 void emp: operator < (condidate &c) class Cardidate if (this -> condidate < classop)

coul < "High experienc"; else cont ec " law experience; void Empis receive_app (condidate &c) {
 cont << " requirent filled; select (candidate &c); void Emps: Select (candidate &c) { this * < C; } class Cardidate ? string name, Qual, DOB, add; int Salary, id, exp; public: Candidate (string n, string y) string o, string and, mt s, int id, int extended, name (n), (sual (ay), DOB(d), add (ad), salary (s), rd (id), exp(ex) \(\frac{2}{3}\)

(13) Sulma 19K-1043 Emp e (id); e- receive app (this); class Moderator ? public : void write-dala (void) { fstream fp3 Sp. open ("info.txt", ios: app); fp, LL count; tp. close (); § void write-data (string m) & fstream tp; fp. open ("message.txt", ios: app);

Jp << m; tp. close 173 3;

194-1043 Salva Q#5). Classes 40 Bank, Diamond, Silver, Gold Bank 2). Diamond Gold Silver Multilevel inheritance

3). Gold member income transition is 1 lac. Limit must be 150,000 per day, balance greater or equal to 10,000.

Silver income at least 20,000 lac Limit 100,000 per day Balance 10,000 at least less then

Diamond income 200,000 limit 250,000. Palance

Calm 1914-1043 try ? (: withdrail <= 150,000) Gold : throw (withdraws); if (Hransach >= 100000) throw (transacts); if (! balance > = 10000) throw (balance); 3 catch (Exception e) ? (aut Le e. what (); } Diamond " try {
 (!balanc >= 50,000) throw (balance); if (! transach >= 250,000) throw (transacti); if (& batance ! withdrawl > 200,00) throw (withdrawl); 3 cotch lexceptur ex) {
cont ece what); 3 : try 2 if (!balance=10000) Silver throw (balance); if (!-transcition & 280,00) if (! withdrawl 2-100 ovo) throw (withdrawy; 3 catch (Exception en) ();

lole 19 K-1043 11 friend function for diamons 4). void POS (void) { if (balance >= 10,0000) cont ec'lour granted Diamond";