OBJECT ORIENTED PROGRAMMING WITH C++

29/09/2022

1.program about employee details with inheritance concept

PROGRAM:

#include<iostream>

using namespace std;

int emp\_id,bp,dd;

char emp\_name[20];

float hra,da,ta,gs,ns;

class master

{

public:

void getdata()

{

cout<<"enter employee id:"<<endl;

cin>>emp\_id;

cout<<"enter employee name:";

cin>>emp\_name;

cout<<"enter basic pay:";

cin>>bp;

}

};

class admin : public master

{

public:

void getdata1()

{

hra = bp\*0.15;

ta = bp\*0.20;

da = bp\*1;

cout<<"hra is:"<<hra<<endl;

cout<<"da is:"<<da<<endl;

cout<<"ta is:"<<ta<<endl;

}

};

class account :public master

{

public:

void getdata2()

{

gs = bp + hra + da + ta;

cout<<"gross salary is:"<<gs<<endl;

}

};

class person: public account,public admin

{

public:

void getdata3()

{

{

cout<<"enter deduction:";

cin>>dd;

}

ns = gs - dd;

cout<<"net salary is:"<<ns<<endl;

}

};

main()

{

master m;

m.getdata();

person p;

p.getdata1();

p.getdata2();

p.getdata3();

}

OUTPUT:

enter employee id:

23

enter employee name:adi

enter basic pay:50000

hra is:7500

da is:50000

ta is:10000

gross salary is:117500

enter deduction:5000

net salary is:112500

2.develop a c++ program to find sum and profuct of two numbers using inheritance concept

PROGRAM:

#include<iostream>

using namespace std;

class sum

{

public:

int x,y,sum,product;

void getdata()

{

cout<<"enter values:";

cin>>x>>y;

sum = x+y;

cout<<"sum:"<<sum<<endl;

}

};

class product:public sum

{

public:

void getdata1()

{

cout<<"product :"<<x \* y;

}

};

main()

{

product p;

p.getdata();

p.getdata1();

}

OUTPUT:

enter values:3 4

sum:7

product :12

3.program about multilevel inheritance concept

PROGRAM:

#include<iostream>

using namespace std;

class student

{

public:

int r;

void data()

{

cout<<"enter roll number:";

cin>>r;

}

};

class test:public student

{

public:

int m1,m2,m3;

void data1()

{

cout<<"enter marks:";

cin>>m1>>m2>>m3;

}

};

class result:public test

{

public:

int total;

void data2()

{

total = m1 + m2 + m3;

cout<<"total = "<<total;

}

};

main()

{

student s;

s.data();

result e;

e.data1();

e.data2();

}

OUTPUT:

enter marks:34

56

333

total = 423

5.PROGRAM ABOUT HIERARCHIAL INHERITANCE

PROGRAM:

#include<iostream>

using namespace std;

int x,y;

class fruit

{

public:

void getdata()

{

cout<<"total is:"<<x+y<<endl;

}

};

class mango:public fruit

{

public:

void getdata1()

{

cout<<"enter mangoes:";

cin>>x;

}

};

class apple: public fruit

{

public:

void getdata2()

{

cout<<"enter apples:";

cin>>y;

}

};

main()

{

apple a;

a.getdata2();

//a.getdata();

mango m;

m.getdata1();

a.getdata();

}

OUTPUT:

enter apples:4

enter mangoes:6

total is:10