

Practical-4.(h)

Aim: Write a C++ program that illustrate Hierarchical inheritance.

Algorithm:(i)Start

(ii)class A{...};class B{....};class C{....};

(iii)Main function

(iv)Print the result

(v)Stop

Theory: When several classes are derived from common base class it is called hierarchical inheritance.

Program:

```
#include <iostream>
```

```
class A
```

```
{
```

```
    public:
```

```
    int x,y;
```

```
    void getdata()
```

```
{
```

```
    std::cout<<"\nEnter value of x and y:\n";
```

```
    std::cin>>x>>y;
```

```
    }  
};  
class B:public A  
{  
    public:  
    void product()  
    {  
        std::cout<<"\nProduct= "<<x<<y;  
    }  
};  
class C:public A  
{  
    public:  
    void sum()  
    {  
        std::cout<<"\nSum= "<<x+y;  
    }  
};  
int main(){
```

```
std::cout<<"08_Rabin Nadar";  
  
B obj1;  
C obj2;  
  
obj1.getdata();  
obj1.product();  
obj2.getdata();  
obj2.sum();  
  
return 0;  
  
}
```

Output:

Output Clear

```
/tmp/yUirleuVkg.o  
08_Rabin Nadar  
Enter value of x and y:  
7 7  
Product= 77  
Enter value of x and y:  
7 7  
Sum= 14|
```

Conclusion:

Successfully written the code and executed it.