**Practical: 17 Write a C++ program to illustrate ‘*this*’ pointer and pointers to derived classes**

**#include<iostream>**

**using namespace std;**

**class BC**

**{**

**public:**

**int b;**

**void show()**

**{ cout<<"b= "<<b<<endl; }**

**BC findlarge(BC obj)**

**{**

**if(b>obj.b)**

**return \*this;**

**else**

**return obj;**

**}**

**};**

**class DC:public BC**

**{**

**public:**

**int d;**

**void show()**

**{**

**cout<<"b= "<<b<<endl;**

**cout<<"d= "<<d<<endl;**

**}**

**};**

**int main()**

**{**

**BC b1,b2;**

**b1.b=10;**

**b2.b=20;**

**BC Large=b1.findlarge(b2);**

**cout<<"\n Largest is :";**

**Large.show();**

**BC \*bptr;**

**BC base;**

**bptr=&base;**

**bptr->b=100;**

**cout<<"Base pointer to base class\n";**

**bptr->show();**

**DC derived;**

**bptr=&derived;**

**bptr->b=200;**

**cout<<"Base pointer to base class\n";**

**bptr->show();**

**DC \*dptr;**

**dptr=&derived;**

**dptr->d=300;**

**cout<<"Derived pointer to derived class\n";**

**dptr->show();**

**((DC\*)bptr)->d=400;**

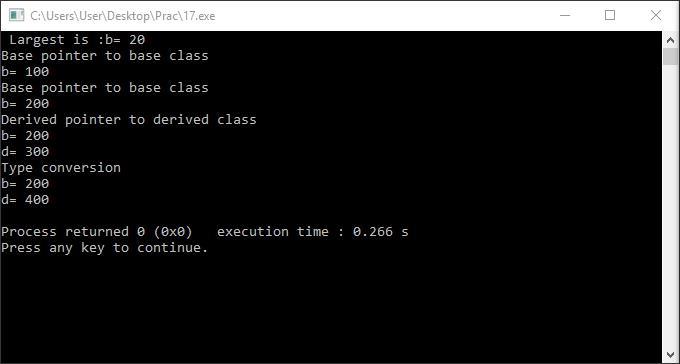
**cout<<"Type conversion\n";**

**((DC\*)bptr)->show();**

**return 0;**

**}**

**Output 17**

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