Exercise 9:   To construct a cpp program using constructor and destructor.

Source Code:

```cpp
#include<iostream>

using namespace std;

class code

{

int id;

int count;

public:

code()

{

cout<<"Default constructor called\n"; id=0;

cout<<"id="<<id<<endl;

}

code(int a)

{

cout<<"Parameterized constructor called\n"; id=a;

cout<<"id="<<id<<endl;

}

code(code&x )

{

cout<<"copy constructor called\n"; id=x.id;

cout<<"id="<<id<<endl;

}

void display()

{

cout<<"id="<<id<<endl;

}

~code()

{

cout<<"Object Destroyed"<<endl;
```

```cpp
}
};
int main()
{
code a(100);//calls parameterized constructor
code b(a); //calls copy constructor
code c(a); //calls copy constructor
code d;//calls default constructor
cout<<"\n For object d id="; d.display();
cout<<"\n For object a id="; a.display();
cout<<"\n For object b id="; d.display();
cout<<"\n For object c id="; d.display();
return 0;
}
```

OUTPUT:

Parameterized constructor called

id=100

copy constructor called

id=100

copy constructor called

id=100

Default constructor called

id=0

 For object d id=id=0

 For object a id=id=100

 For object b id=id=0

 For object c id=id=0

Object Destroyed

Object Destroyed

Object Destroyed

Object Destroyed