1. Problem statement: Write a program in Java to show the use of super keyword with a constructor, methods, variables.

2. code with comments:
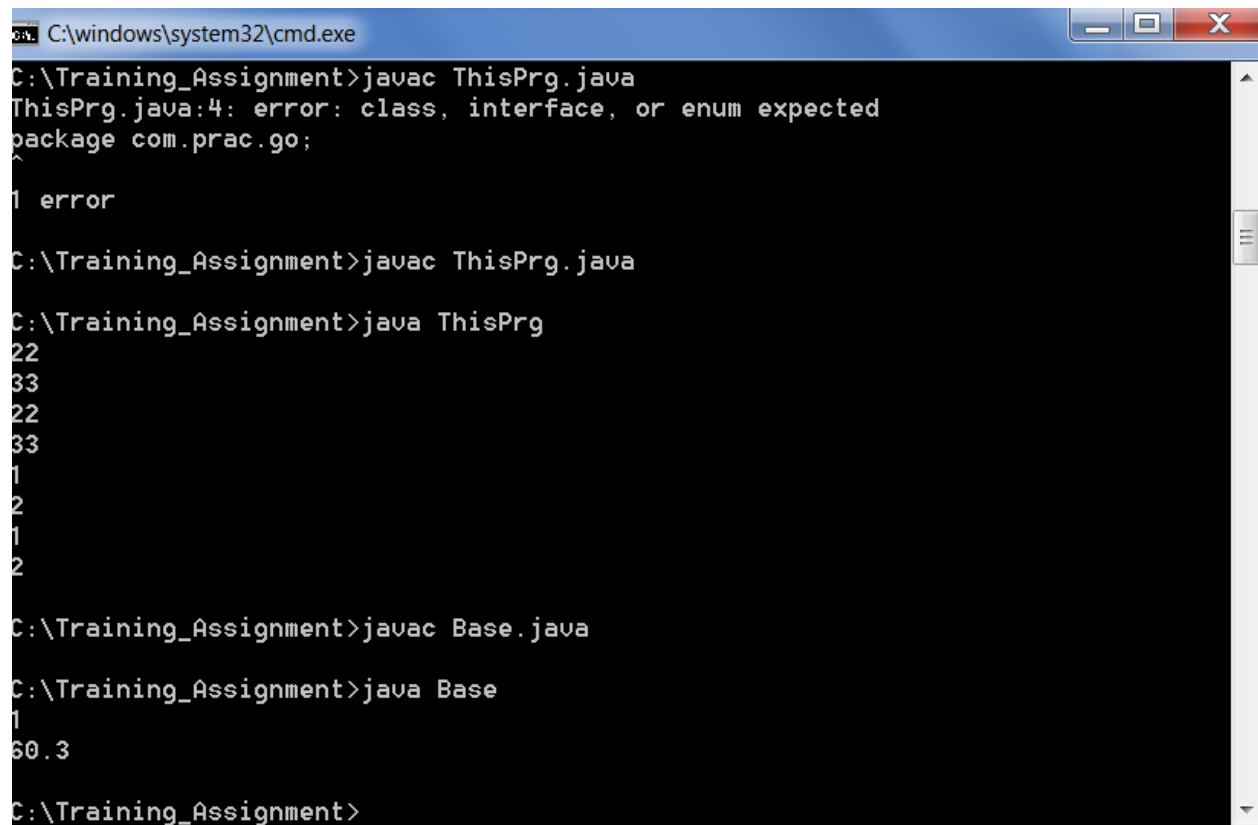
```java
class Parent {

    // instance variable

    int a = 36;


    // static variable

    static float x = 12.2f;
}


class Base extends Parent {

    void GFG()

    {

        // referring super class(i.e, class Parent)

        // instance variable(i.e, a)

        super.a = 1;

        System.out.println(a);


        // referring super class(i.e, class Parent)

        // static variable(i.e, x)

        super.x = 60.3f;


        System.out.println(x);

    }

    public static void main(String[] args)

    {

        new Base().GFG();

    }
```

}

3. Explanation of the code: referring super class(i.e, class Parent) and instance variable(i.e, a), referring super class(i.e, class Parent) , static variable(i.e, x). Using these to write a program using super keyword.

4. Result flow in detail: referring super class(i.e, class Parent) and instance variable(i.e, a), referring super class(i.e, class Parent) , static variable(i.e, x). Using these to write a program using super keyword.

5. Output screenshot: