1. What is the Output:

```
class A{
   int x;
   A() {
         System.out.println("Hi A");
         x=10;
   }
}
class B extends A{
   int y;
   B() {
         System.out.println("Hello B");
         x=15;
   }
   void show(){
         System.out.println(x);
         System.out.println(y);
   }
}
class Test{
   public static void main(String[] args) {
         B b= new B();
         b.show();
   }
}
```

2. What is the Output:

```
class A{
   int x;
   A() {
         this(2);
         System.out.println("Hi A");
   }
   A(int a) {
         x=a;
         System.out.println("Hello A");
   }
}
class B extends A{
   B() {
         System.out.println("Hi B");
   }
}
class Test{
   public static void main(String[] args) {
         B b=new B();
         System.out.println(b.x);
   }
}
```

3. What is the Output:

```
class A{
   int x=10;
   A() {
         System.out.println("Hi A");
   }
   A(int a) {
         this();
         System.out.println("Hello A");
         x=a;
   }
}
class B extends A{
   B(int b) {
         x=b;
         System.out.println("Hi B");
   }
}
class Test{
   public static void main(String[] args) {
         B b=new B(5);
         System.out.println(b.x);
         A a=new A(3);
         System.out.println(a.x);
   }
}
```

4. What is the Output:

```
class A{
   int x=10;
   A() {
         System.out.println("Hi A");
   }
   A(int a) {
         this();
         System.out.println("Hello A");
         x=a;
   }
}
class B extends A{
   int y;
   B() {
         super(5);
         System.out.println("Hi B");
   }
```

```
    B(int b) {
          x=y=b;
          System.out.println("Hello B");
    }
}
class Test{
    public static void main(String[] args) {
          B b= new B();
          B b2= new B(5);
          System.out.println(b.x+"\t"+b.y);
          System.out.println(b2.x+"\t"+b2.y);
    }
}
```