Week 05 : Programming Assignment 1

An interface Number is defined in the following program.

You have to declare a class A, which will implement the interface Number.

Note that the method findSqr(n) will return the square of the number n.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	-2	4	4	Passed

The due date for submitting this assignment has passed.
1 out of 1 tests passed.
You scored 100.0/100.

Assignment submitted on 2025-02-24, 00:10 IST
Your last recorded submission was :

```java
1  import java.util.Scanner;
2
3  interface Number {
4      int findSqr(int i);   // Returns the square of n
5  }
6  // Class A implements the Number interface
7  class A implements Number {
8      // Implement the findSqr method
9      public int findSqr(int i) {
10         return i * i;   // Return square of the given number
11     }
12 }
13 public class W05_P1{
14         public static void main (String[] args){
15           A a = new A();    //Create an object of class A
16           // Read a number from the keyboard
17           Scanner sc = new Scanner(System.in);
18           int i = sc.nextInt();
19           System.out.print(a.findSqr(i));
20     }
21 }
```

Sample solutions (Provided by instructor)

```java
1  import java.util.Scanner;
2
3  interface Number {
4      int findSqr(int i);   // Returns the square of n
5  }
6  class A implements Number {
7      //Define a method to find the square of a number
8      int i, square;
9      public int findSqr(int i) {
10         square=i*i;
11             return square;
12     }
13 }
14 public class W05_P1{
15         public static void main (String[] args){
16           A a = new A();    //Create an object of class A
17           // Read a number from the keyboard
18           Scanner sc = new Scanner(System.in);
19           int i = sc.nextInt();
20           System.out.print(a.findSqr(i));
21     }
22 }
```