Part A

import java.util.\*;  
  
public class SumUsingAutoboxing {  
 public static void main(String[] args) {  
 Scanner sc = new Scanner(System.in);  
 ArrayList<Integer> numbers = new ArrayList<>();  
   
 System.out.println("Enter integers (type 'done' to finish):");  
   
 while (true) {  
 String input = sc.nextLine();  
 if (input.equalsIgnoreCase("done")) {  
 break;  
 }  
 try {  
 // String parsing to int then autoboxing into Integer  
 int num = Integer.parseInt(input);  
 numbers.add(num); // Autoboxing  
 } catch (NumberFormatException e) {  
 System.out.println("Invalid input, please enter an integer or 'done'.");  
 }  
 }  
   
 int sum = 0;  
 for (Integer n : numbers) {  
 sum += n; // Unboxing  
 }  
   
 System.out.println("The sum of integers is: " + sum);  
 sc.close();  
 }  
}