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**Q1.**

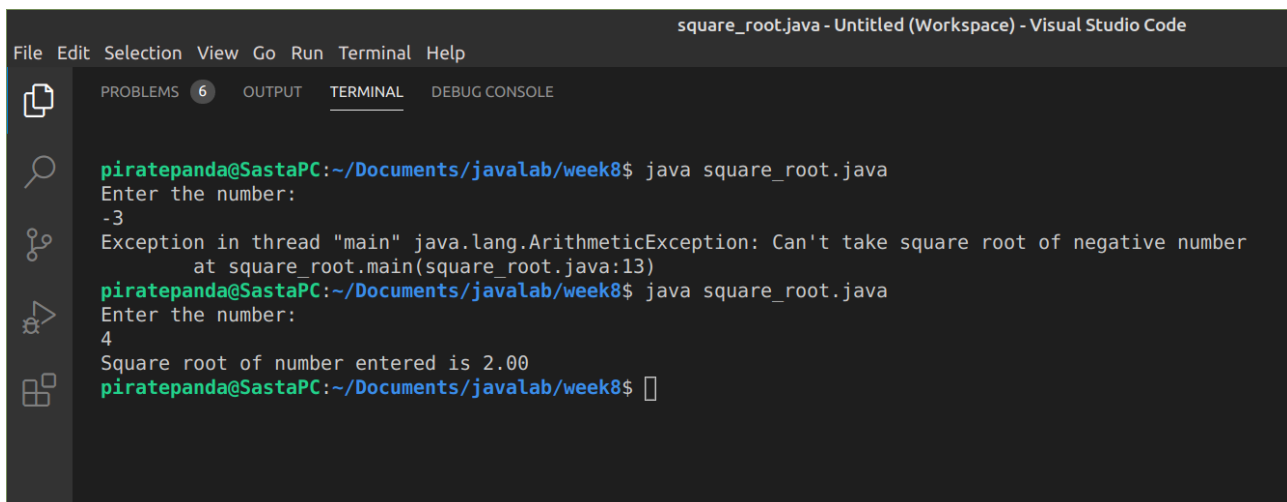
```
import java.util.Scanner;

public class square_root {

    public static void main(String[] args) {
        double squareRootOfNumber = 0.0;
        double number;
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the number: ");
        number = in.nextDouble();
        squareRootOfNumber = Math.sqrt(number);
        if (number < 0) {
            throw new ArithmeticException("Can't take square root of negative number");
        }
        System.out.format("Square root of number entered is %.2f %n", squareRootOfNumber);
    }

}
```

**Output :**



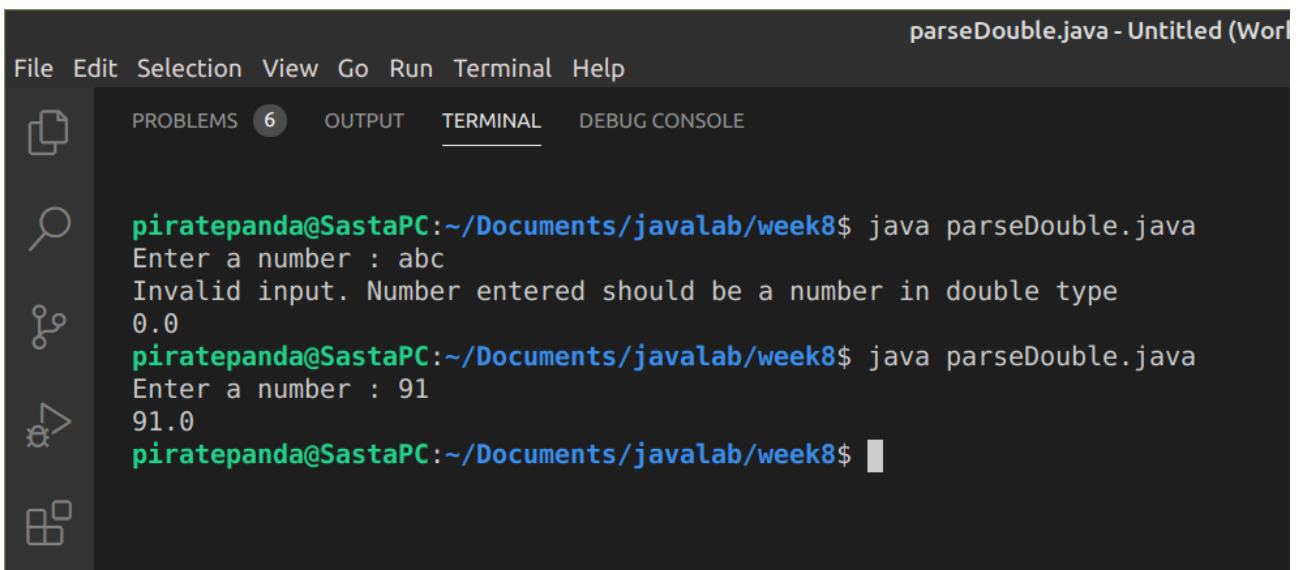
```
square_root.java - Untitled (Workspace) - Visual Studio Code
File Edit Selection View Go Run Terminal Help
PROBLEMS 6 OUTPUT TERMINAL DEBUG CONSOLE
piratepanda@SastaPC:~/Documents/javablab/week8$ java square_root.java
Enter the number:
-3
Exception in thread "main" java.lang.ArithmeticException: Can't take square root of negative number
    at square_root.main(square_root.java:13)
piratepanda@SastaPC:~/Documents/javablab/week8$ java square_root.java
Enter the number:
4
Square root of number entered is 2.00
piratepanda@SastaPC:~/Documents/javablab/week8$
```

## Q2.

```
import java.util.Scanner;

public class parseDouble {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        double num;
        try {
            System.out.print("Enter a number : ");
            num = Double.parseDouble(in.nextLine());
        } catch (NumberFormatException e) {
            num = 0;
            System.out.println("Invalid input. Number entered should be a number in double type");
        }
        System.out.println(num);
    }
}
```

## Output :



```
parseDouble.java - Untitled (Work)  
File Edit Selection View Go Run Terminal Help  
PROBLEMS 6 OUTPUT TERMINAL DEBUG CONSOLE  
piratepanda@SastaPC:~/Documents/javablab/week8$ java parseDouble.java  
Enter a number : abc  
Invalid input. Number entered should be a number in double type  
0.0  
piratepanda@SastaPC:~/Documents/javablab/week8$ java parseDouble.java  
Enter a number : 91  
91.0  
piratepanda@SastaPC:~/Documents/javablab/week8$
```