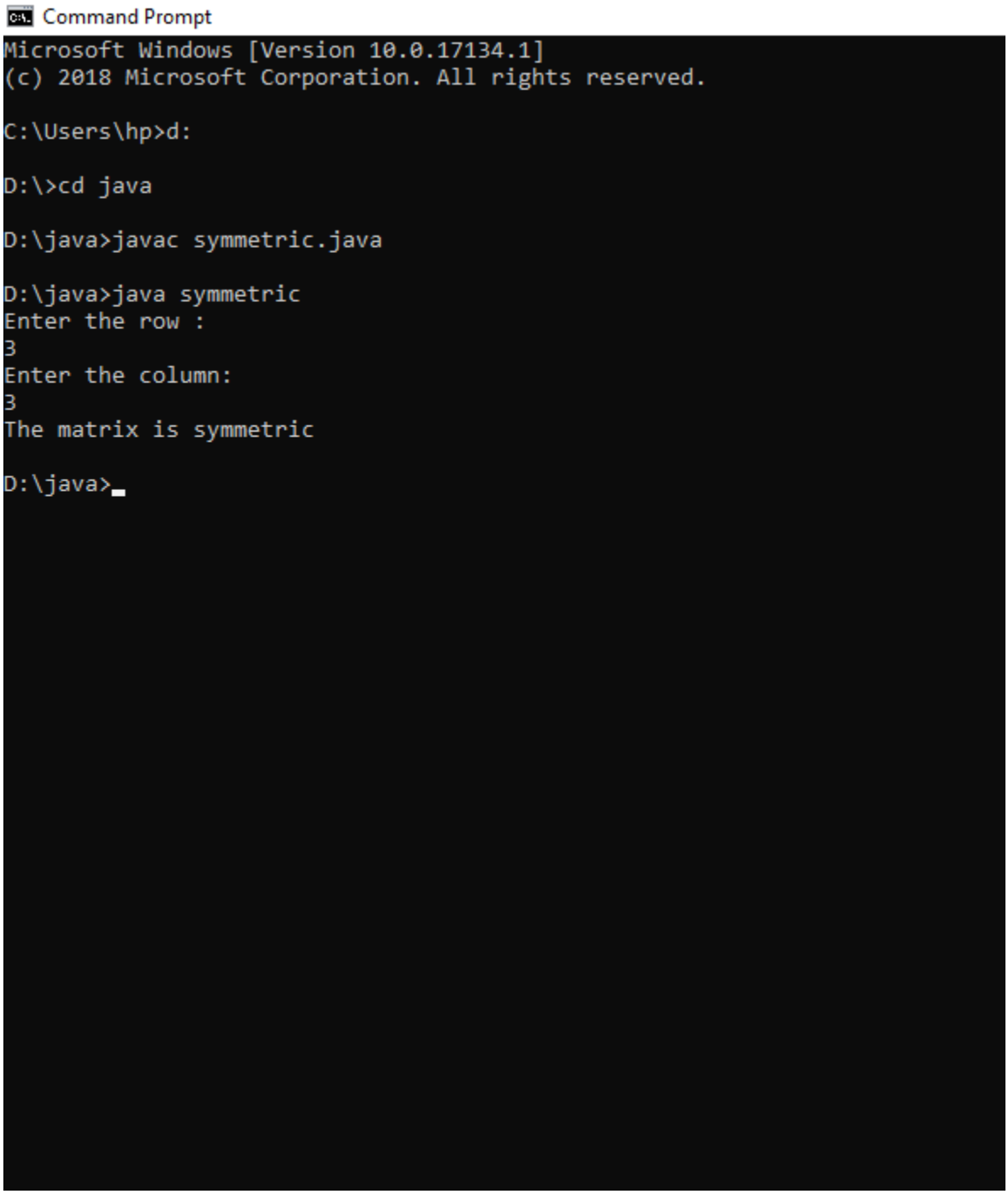
Assignment :2

Question 1: Read matrix from the console and check whether it is symmetric or not.

Code:

```
import java.util.*;
public class symmetric {
    public static void main(String[] args){
        Scanner input = new Scanner(System.in);
        System.out.println("Enter the row :");
        int row = input.nextInt();
        System.out.println("Enter the column:");
        int col=input.nextInt();
        if(row==col){
            System.out.println("The matrix is symmetric");
        }else{
            System.out.println("The matrix is assymetricc");
        }
    }
}
```

Output:


Command Prompt
Microsoft Windows [Version 10.0.17134.1]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\hp>d:
D:\>cd java
D:\java>javac symmetric.java
D:\java>java symmetric
Enter the row :
3
Enter the column:
3
The matrix is symmetric
D:\java>

Question 2: Create CPU with attribute price.Create class Processor(no.of cores,manufacturer)and static nested class RAM (memory,manufacturer).Create an object of CPU and print information of Processor and RAM.

Code:

```
class cpu{
   String price="10000";
   class processor{
      int no_of_cores =5;
      String manufacturer="Intel";
      static class RAM{
         String manufacturer="ASUS";
         String memory="8GB";
      }
   }
}
public class newclass {
   public static void main(String[] args){
      cpu system = new cpu();
      cpu.processor proce = system.new processor();
      cpu.processor.RAM ram = new cpu.processor.RAM();
```

```
        System.out.println("1 cpu has price of  "+system.price+
                ".The processor has "+proce.no_of_cores+" no of processors and is manufactured by "+proce.manufacturer+
                "The system has RAM of "+ram.memory+" and  it is manufactured by "+ram.manufacturer+".");


    }
}
```

Output: