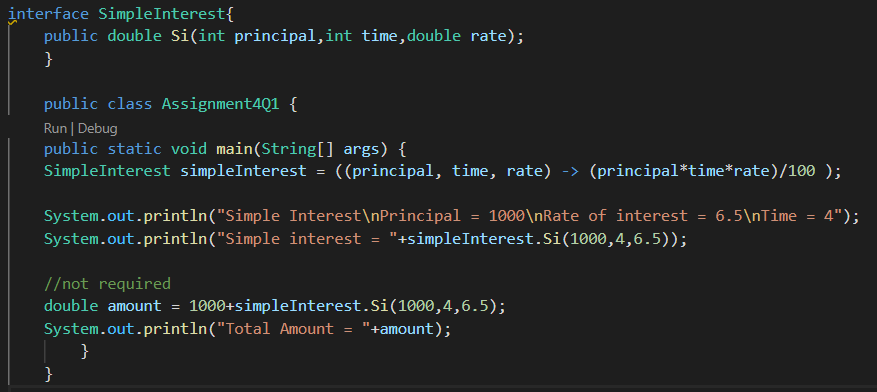
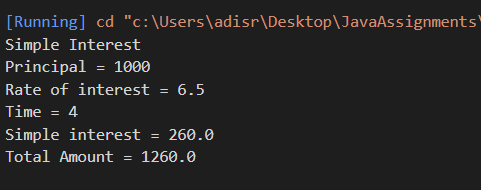
**Adisri Sarode**

**Assignments on Java 11**

1. Write a program to calculate the Simple Interest with minimal code using features of Java 11.



OUTPUT:



2. Java 11 supports var keyword for variable declarations. List the scenarios where var keyword cannot be used for such variable declarations. Give reason in support of your answer for each scenario.

**Answer:**

* You can use var only for local variables (in methods). It cannot be used for instance variables (at class level).
* You cannot use var in Lambda expressions.
* You cannot use var for method signatures (in return types and parameters).

And remember, you cannot use var to declare a variable without explicit initialization, hence the following:

var x;

is not allowed, since local variable declaration requires initialization on the right side. That also means this declaration is not valid:

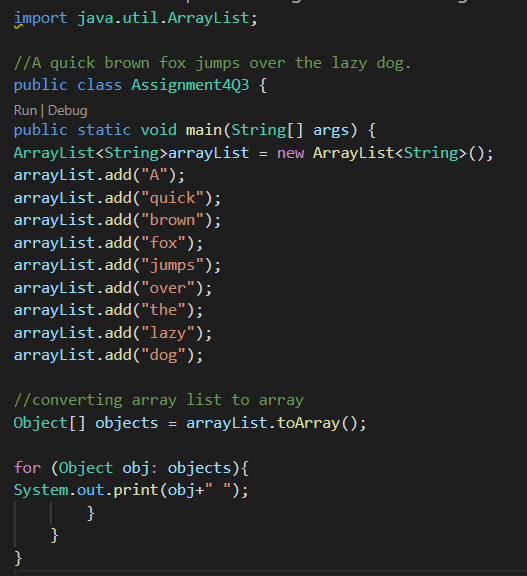
var x = null;

3. “A quick brown fox jumps over the lazy dog”. Create an ArrayList from the given

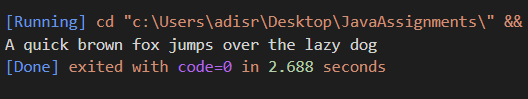
String. Such an ArrayList should include each word from the given sentence. Finally

convert such List to an array using Java 11 methods and print the output.

Code:

****

**OUTPUT:**

****

4. Using features of Java 11, read the data from a text file (File name: StudentList.txt). Calculate the count of students and print the names as well as the total count of students on the screen.

import java.io.\*;

import java.util.Scanner;

public class Assignment3Q1 {

public static void main(String[] args) throws IOException {

// File path is passed as parameter

File file = new File("C:\\Users\\adisr\\Desktop\\JavaAssignments\\Java11Assignments\_StudentList.txt");

Scanner sc = new Scanner(file);

int count = 0;

while (sc.hasNextLine()){

String string = sc.nextLine();

if(string.length()!=0){

System.out.println(string.trim());

count++;

            }

        }

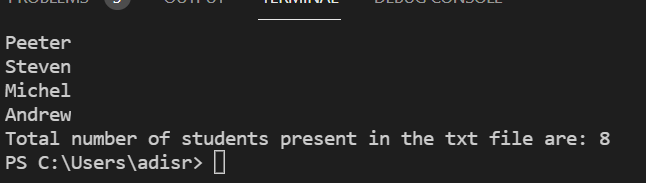
System.out.println("Total number of students present in the txt file are: "+count);

sc.close();

    }

}

**OUTPUT:**

****

5. Write a program with menu to accept the price of certain items and display their total.

When user selects Option 1: should accept the prices of different products and insert

these prices into first file (each amount to be inserted in a newline in the file). Next,

total of these values should be saved in a new file. Option 2: should allow the user to

view the total of these prices from the second file.

**Sample Output:**

Select your option (1: Insert New Price, 2: View Purchase Total, 3: Exit)

> 1

> Insert 1st price:

> 100

> Price has been saved to the file

> Do you want to enter price for more items? (Yes/No)

> Yes

> Insert 2nd price:

> 200

> Price has been saved to the file

> Do you want to enter price for more items? (Yes/No)

> No

> Select your option (1: Insert New Price, 2: View Purchase Total, 3: Exit)

> 2

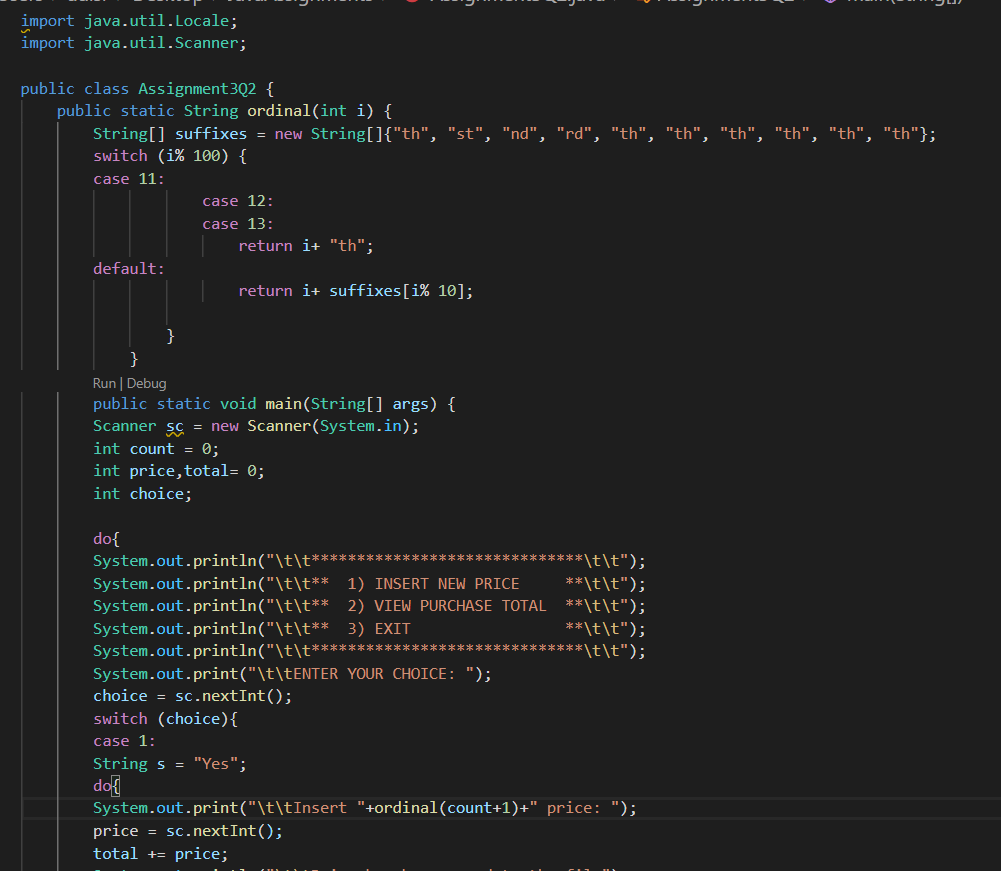
> Total Price of all items is: 300

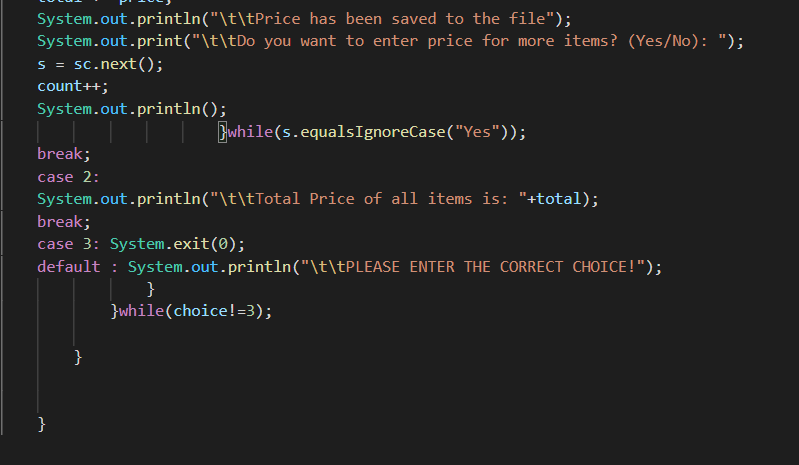
> Select your option (1: Insert New Price, 2: View Purchase Total, 3: Exit)

> 3

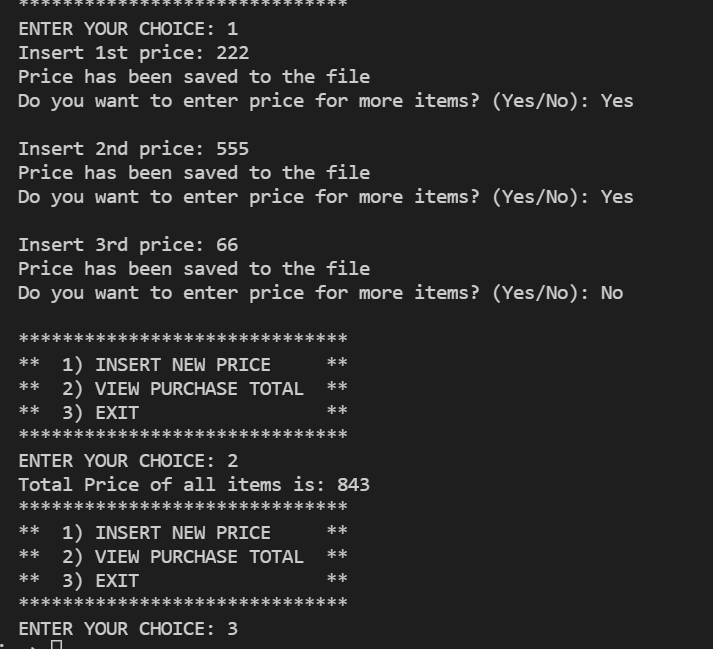
exit program….

Hint: Use java 11 features of files and String methods to reduce the line of code.





OUTPUT:



6. Write a code using HttpClient API which sends a GET request

to https://httpbin.org/get, and print out the response header, status code, and

body for the given URL.

Sample output could be (Note: date and other attribute values may differ in your

results):

access-control-allow-credentials:[true]

access-control-allow-origin:[\*]

connection:[keep-alive]

content-length:[273]

content-type:[application/json]

date:[Fri, 06 Aug 2021 13:07:41 GMT]

server:[gunicorn/19.9.0]

200

{

"args": {},

"headers": {

"Content-Length": "0",

"Host": "httpbin.org",

"User-Agent": "Java 11 HttpClient Bot",

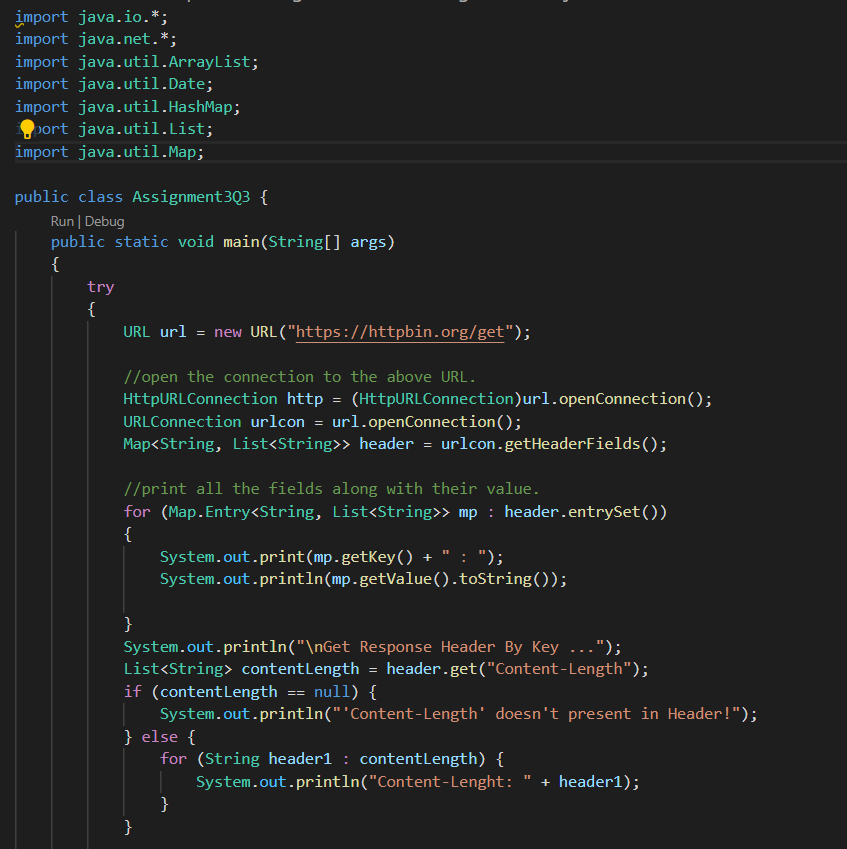
"X-Amzn-Trace-Id": "Root=1-610d341d-092dc33f698b192a219426d1"

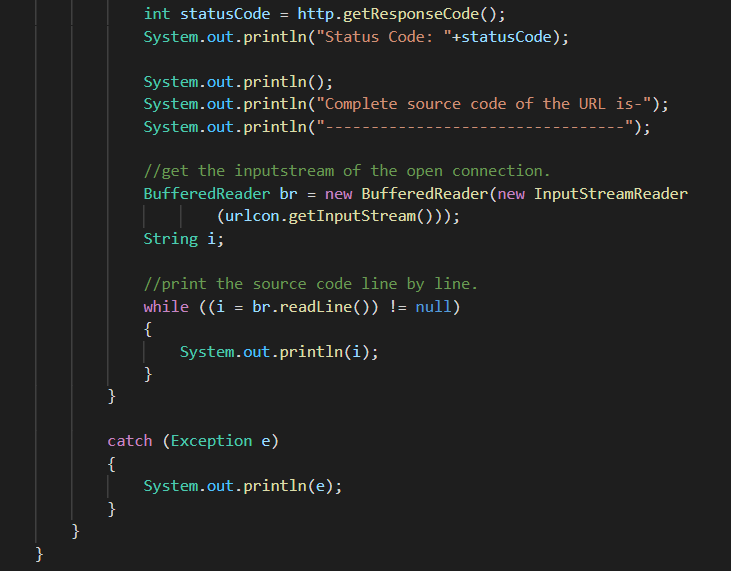
},

"origin": "43.255.221.184",

"url": "https://httpbin.org/get"

}





OUTPUT:

