Q1

package java11;

interface Interest{

double calc(double a,double b,int c);

}

public class Simpleintrest{

public static void main(String[] args) {

var F=600000;

var rate=7;

var time=4;

Interest i=(var a, var b, var c)->(a\*b\*c)/100;

System.out.println(i.calc(F,rate,time));

}

}

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q2

package java11;

import java.util.ArrayList;

public class Q2var {

// var x=50;

// var cannot be used in an instance and global variable declaration

public static void main(String[] args) {

var x =50; //this is acceptable

// var s; //var cannot be used without explicit initialization

// var<var> l1=new ArrayList<>();

// We need to Specify Type, var cannot be used as a Generic type

// var<Integer> l2=new ArrayList<>();

// Even if generic type is specified, var cannot be used with the generic type

// var cannot be used for method parameters and return type

// var res=method1();

}

// static var method1() {return ("Inside Method1");}

// static method2(var a){System.out.println(a);}

}

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q3

package java11;

import java.util.ArrayList;

import java.util.Arrays;

public class J113 {

public static void main(String[] args) {

String s="A quick brown fox jumps over the lazy dog";

String[] strSplit = s.split(" ");

ArrayList<String> words = new ArrayList<>(Arrays.asList(strSplit));

// String[] arr=words.toArray(new String[0]);

String[] arr=words.toArray(String[]::new);

System.out.println(Arrays.toString(arr));

}

}

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Q4

package java11;

import java.io.IOException;

import java.nio.file.Files;

import java.nio.file.Path;

import java.util.List;

import java.util.stream.Collectors;

public class J114 {

public static void main(String[] args) {

var path="C:\\Users\\PRATIK\\Desktop\\CG\\StudentList.txt";

try {

String data=Files.readString(Path.of(path));

List<String> s=data.lines().map(t->t.trim()).collect(Collectors.toList());

s.stream().filter(t-> !t.isBlank()).forEach(t-> System.out.print(t+" "));

System.out.println();

long count=s.stream().filter(t-> !t.isBlank()).count();

System.out.println("Number of students :"+ count);

} catch (IOException e) {

e.printStackTrace();

}

}

}

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Q5

package java11;

import java.io.IOException;

import java.nio.file.Files;

import java.nio.file.Path;

import java.nio.file.StandardOpenOption;

import java.util.Scanner;

public class J115 {

public static void main(String[] args) {

Scanner ip=new Scanner(System.in);

int total=0, option, price, count=1;

var path="C:\\Users\\PRATIK\\Desktop\\CG\\Price.txt";

var path1="C:\\Users\\PRATIK\\Desktop\\CG\\Total.txt";

String resp="yes";

do {

System.out.println("Select your option \n 1: Insert New Price, 2: View Purchase, 3: Exit");

option=ip.nextInt();

if(option==1){

while(resp.equalsIgnoreCase("yes")){

System.out.println("Insert price " + count);

count++;

price = ip.nextInt();

total+=price;

try {

Files.writeString(Path.of(path),price+ "\n", StandardOpenOption.APPEND);

} catch (IOException e) {}

ip.nextLine();

System.out.println("Do you want to enter more items? (Yes/No)");

resp=ip.nextLine();

if(resp.equalsIgnoreCase("no"))

break;

}

}

if(option==2) {

System.out.println("Total price of all items is " + total);

try {

Files.writeString(Path.of(path1),total+ "\n", StandardOpenOption.APPEND);

} catch (IOException e) {}

}

}while(option!=3);

}

}

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Q6

package java11;

import java.io.IOException;

import java.net.URI;

import java.net.http.HttpClient;

import java.net.http.HttpRequest;

import java.net.http.HttpResponse;

public class J116 {

public static void main(String[] args) {

String uri="https://httpbin.org/get";

HttpRequest req=HttpRequest.newBuilder()

.uri(URI.create(uri))

.GET()

.version(HttpClient.Version.HTTP\_2)

.build();

HttpClient client=HttpClient.newBuilder().build();

try {

HttpResponse<String> resp= client.send(req, HttpResponse.BodyHandlers.ofString());

System.out.println("Status code :"+resp.statusCode());

System.out.println(resp.body());

System.out.println(resp.headers());

} catch (IOException e) {

e.printStackTrace();

} catch (InterruptedException e) {

e.printStackTrace();

}

}

}