JAVA 11 PROGRAMS

1.program

public class SimpleInterest

{

public static void main(String[] args)

{

var Principal=10000;

var Rate=6;

var Time=3;

CalculateSI obj = (var a,var b,var c) -> (a\*b\*c)/100;

System.out.println(obj.sI(Principal, Rate, Time));

}

}

interface CalculateSI

{

double sI(double P,double R,double T);

}

2.Program

3.program

import java.util.Arrays;

import java.util.List;

public class ArrayList

{

public static void main(String[] args)

{

List<String> str = Arrays.asList("A","quick","brown","fox","jumps","over","the","lazy","dog.");

System.out.println(str);

str.toArray();

str.forEach(l -> System.out.print(l + " "));

}

}

4.Program

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 Student

{

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

{

var path = "C:\\Users\\MBALKRIS\\Downloads\\Java11Assignments\_StudentList.txt";

List<String> str = Files.readAllLines(Path.of(path));

long count = str.stream().filter(l -> !(l.isBlank())).count();

System.out.println(str.stream().filter(l -> !(l.isBlank())).map(l-> l.strip())

.collect(Collectors.toList()) + "\nThere are " +count + " Students");

}

}

5.Program

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 PriceDisplay

{

public static void main(String[] args)

{

var path1="C:\\Users\\MBALKRIS\\Downloads\\File1.txt";

var path2="C:\\Users\\MBALKRIS\\Downloads\\File2.txt";

int ch,price,totalPrice=0;

boolean isTrue=true;

Scanner sc=new Scanner(System.in);

Boolean selected = true;

while(isTrue) {

System.out.println("Enter Option (1.Insert new ,2.view purchase total ,3.Exit)");

ch=sc.nextInt();

if(ch == 1) {

int yN;

while (selected) {

try {

System.out.println("Insert price :");

price=sc.nextInt();

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

totalPrice +=price;

Files.writeString(Path.of(path2),Integer.toString(totalPrice)+"\n", StandardOpenOption.CREATE);

}catch(IOException e){

e.printStackTrace();

}

System.out.println("Do you want to enter price for more item press 1 to for menu and 0 to exit");

yN = sc.nextInt();

sc.nextLine();

if (yN == 0) {

selected = false;

}

}

}else if (ch==2) {

try {

String data=Files.readString(Path.of(path2));

System.out.println(data);

}catch(IOException e){

e.printStackTrace();

}

}else if (ch == 3) {

System.out.println("Exit...");

isTrue=false;

break;

}

}

}

}

6.Program

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 HttpClientAPI

{

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

{

String url = "http://httpbin.org/get";

var request = HttpRequest.newBuilder()

.uri(URI.create(url))

.GET()

.build();

var client = HttpClient.newHttpClient();

HttpResponse<String> response = client.send(request, HttpResponse.BodyHandlers.ofString());

System.out.println("Status Code: " + response.statusCode());

System.out.println("Response: " + response.body());

}

}