Assignment 5

1. import java.util.Scanner;

public class Interest {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

double principal = 1000.0; // initial amount before interest

System.out.print("Enter the interest rate: ");

double rate = input.nextDouble(); // interest rate

// display headers

System.out.printf("%s%20s%n", "Year", "Amount on deposit");

// calculate amount on deposit for each of ten years

for (int year = 1; year <= 10; ++year) {

// calculate new amount on deposit for specified year

double amount = principal \* Math.pow(1.0 + rate, year);

// display the year and the amount

System.out.printf("%4d%,20.2f%n", year, amount);

}

}

Text

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1. Yes the code is invalid, remove the semicolon from the while statement

i = 1;

while (i <= 10)

++i;

}

1. PartTimeEmp emp1 = new PartTimeEmp(“Benedict”);

PartTimeEmp emp2 = new PartTimeEmp(“Anthony”, 9.00);

PartTimeEmp emp3 = new PartTimeEmp(“Sebastian”, 10.50, 5);

PartTimeEmp emp4 = new PartTimeEmp(“Chris”, 11.50, 6);

1. int[][] num = { {1,2,3}, {2,3,4}, {4,5,6}, {5,6,7} };
2. int[][] a = {{1,2},{3,4}};

a[1][1] = 5;

double[][] myArr = new double[10][12];

myArr[10][12] = 99.99;

1. False, they both have to be true

True

True

1. You have to make the while loop <= 100,

public class Even {

public static void main(String[] args) {

int counter = 2;

do {

System.out.println(counter);

counter += 2;

} while (counter <= 100);

}

}

1. Declare an integer variable named total equal to 0.

Make a for loop and if i is less than the length of grades,

make the total equal to the total plus grades[i]

Declare a double variable named avg that equals the total divided by grades length

Print the average grade

1. A screenshot of a computer

   Description automatically generated with medium confidenceA picture containing table

   Description automatically generatedText

   Description automatically generated with medium confidenceGraphical user interface

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2. Text

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