Assignment 2 java

Question 1

import java.util.\*;

class App {

static boolean Prime(int number) {

int i;

if (number < 2) {

return false;

}

if (number == 2 || number == 3) {

return true;

}

for (i = 2; i <= Math.sqrt(number \* 1.0); i++) {

if (number % i == 0) {

return false;

}

}

return true;

}

public static void main(String[] args) {

Scanner keyboard = new Scanner(System.in);

System.out.println("Prime numbers between 1 to 500");

for (int i = 1; i <= 500; i++) {

if (Prime(i)) {

System.out.println(i);

}

}

b)

public class Euler {

public static void main(String[] args) {

int num1 = 0;

int num2 = 1;

int temp = 0;

int sum = 0;

do {

if (num2 % 2 == 0) {

sum = sum + num2;

}

temp = num1 + num2;

num1 = num2;

num2 = temp;

} while (num2 < 4000000);

System.out.println(sum);

}

}

C)

#Problem 2

P2 = 0

fib= 0

f1 = 1

f2 = 0

debugP2 = []

while fib < 4000000:

fib = f1 + f2

f2 = f1

f1 = fib

if fib % 2 == 0:

P2 += fib

debugP2.append(fib)

print(debugP2)

print(P2)

Question 2

1) var palindromeChainLength = function(n) {

2) let notIsPalindrome = true, index = 0, value=n;

3) while(notIsPalindrome){

4) let reversed = Number.parseInt(value.toString().split('').reverse().join(''));

50 if(value == reversed){

6) notIsPalindrome = false;

7) }else{

8) index++;

9) value += reversed;

10) }

11) }

12) return index;

13) }

Question 3

import java.util.Scanner;

public class KboatSDAMinMaxSum

{

public static void main(String args[]) {

Scanner in = new Scanner(System.in);

int arr[] = new int[20];

System.out.println("Enter 20 numbers:");

for (int i = 0; i < 20; i++) {

arr[i] = in.nextInt();

}

int min = arr[0], max = arr[0], sum = 0;

for (int i = 0; i < arr.length; i++) {

if (arr[i] < min)

min = arr[i];

if (arr[i] > max)

max = arr[i];

sum += arr[i];

}

System.out.println("Largest Number = " + max);

System.out.println("Smallest Number = " + min);

System.out.println("Sum = " + sum);

}

}

OUTPUT

23

63

81

67

28

55

29

11

76

77

32

Largest Number=85

Smallest Number=2

Sum=775