Java Assignment- 6 (SOLUTION)

SOLUTION 1 :

**public** **class** **fibonacci{**

**public** **static** **void** **main**(String[] args) {

**int** i = 1, t1 = 0, t2 = 1;

Scanner input = **new** Scanner(System.in);

System.out.println("Enter the number to limit Fibonacci series: ");

**int** num = input.nextInt();

System.out.println("First " + num + " terms: ");

**while** (i <= num)

{ System.out.print(t1 + " ");

**int** sum = t1 + t2;

t1 = t2; t2 = sum;

i++; }

input.close();

}

}

SOLUTION 2 :

public class Perfect

{

public static void main(String[] args)

{ int n, sum = 0;

Scanner s = new Scanner(System.in);

System.out.print("Enter any integer you want to check:");

n = s.nextInt();

for(int i = 1; i < n; i++)

{ if(n % i == 0)

{ sum = sum + i;

}

}

if(sum == n)

{ System.out.println("Given number is Perfect");

}

else

{ System.out.println("Given number is not Perfect");

}

}

int divisor(int x)

{ return x;

}

}

SOLUTION 3 :

class Main {

public static void main(String[] args) {

int num = 3553, reversedNum = 0, remainder;

int originalNum = num;

while (num != 0) {

remainder = num % 10;

reversedNum = reversedNum \* 10 + remainder;

num /= 10;

}

if (originalNum == reversedNum) {

System.out.println(originalNum + " is Palindrome.");

}

else {

System.out.println(originalNum + " is not Palindrome.");

}

}

}

SOLUTION 4 :

public class Armstrong {

public static void main(String[] args) {

int number = 371, originalNumber, remainder, result = 0;

originalNumber = number;

while (originalNumber != 0)

{

remainder = originalNumber % 10;

result += Math.pow(remainder, 3);

originalNumber /= 10;

}

if(result == number)

System.out.println(number + " is an Armstrong number.");

else

System.out.println(number + " is not an Armstrong number.");

}

}

SOLUTION 5 :

class OccurenceOfChar {

static void characterCount(String inputString)

{ HashMap<Character, Integer> charCountMap

= new HashMap<Character, Integer>();

char[] strArray = inputString.toCharArray();

for (char c : strArray) {

if (charCountMap.containsKey(c)) {

charCountMap.put(c, charCountMap.get(c) + 1);

}

else {

charCountMap.put(c, 1);

}

}

for (Map.Entry entry : charCountMap.entrySet()) {

System.out.println(entry.getKey() + " " + entry.getValue());

}

}

public static void main(String[] args)

{

String str = "Ajit";

characterCount(str);

}

}