DAY – 3 JAVA TRANING

1)

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int n = s.nextInt();

int temp = n;

int sum = 0;

int rem = 0;

while(n!=0){

rem = n % 10;

sum = sum + rem;

n = n/10;

}

if (temp%sum == 0){

System.out.print("Harshad Number");

}

else {

System.out.print("Not Harshad Number");

}

}

}

2)

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System .in);

int a = s.nextInt();

int sum = 0;

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

if(a%i == 0) {

sum =sum + i;

//System.out.print("Abundant Number");

}

}

if(sum > a) {

System.out.print("Abundant Number");

}

else {

System.out.print("Not Abundant Number");

}

}

/\* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. \*/

}

3)

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int a = s.nextInt();

int rem=0;

int sum=0;

if ((a/100) > 0)

{

while(a!=0)

{

rem = a % 10;

sum = sum + rem;

a = a/10;

}

System.out.print("Sum of digit is "+sum);

}

else {

System.out.print("Invalid Input");

}

/\* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. \*/

}

}

4)

import java.util.Scanner;

public class Solution {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int n = sc.nextInt(); // Start position

int m = sc.nextInt(); // End position

if (n < 1 || n > 20 || m < 1 || m > 20) {

System.out.println("Invalid Input");

return;

}

int[] fib = new int[21];

fib[1] = 0;

fib[2] = 1;

for (int i = 3; i <= 20; i++) {

fib[i] = fib[i - 1] + fib[i - 2];

}

double sum = 0;

for (int i = n; i <= m; i++) {

sum += fib[i];

}

System.out.println("The Sum of Fibonacci value is " + sum);

}

}

5)

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int a = s.nextInt();

if(a<=9 && a>=1) {

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

System.out.println(+a+" x "+i+" = "+(a\*i));

}

}

else {

System.out.println("Invalid Input");

}

/\* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. \*/

}

}

6)

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int a = s.nextInt();

int b = s.nextInt();

int sum=0;

if ((a>0 && a<30)&&(b>0 && b<30)&&(a<b)) {

for(int i=a;i<=b;i++) {

if(i%2 == 0){

sum+=i;

}

}

System.out.println(+sum);

}

else {

System.out.println("Invalid Input");

}

/\* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. \*/

}

}

7)

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

long a = s.nextLong();

int i=0;

if(a>=1 && a<=10000000) {

while(a!=0) {

a = a/10;

i++;

}

System.out.println("The count of the given integer is: "+i);

}

else{

System.out.println("Enter a Valid Input");

}

/\* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. \*/

}

}

8)

import java.io.\*;

import java.util.\*;

public class Solution {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

int a = s.nextInt();

int i,j;

char b = 'A';

if(a>0 && a<9){

for(i=0;i<a;i++) {

for(j=0;j<=i;j++) {

System.out.print(b +" " );

b++;

}

System.out.println();

}

}

else {

System.out.println("Invalid Input");

}

}

/\* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. \*/

}