To Count the vowels in String

Public class CountVowels{

public static void main(String args[]) {

String str="";

int count=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a string:");

str=sc.nextLine();

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

{

switch(str.charAt(i))

{

case 'a':

case 'A':

case 'e':

case 'E':

case 'i':

case 'I':

case 'o':

case 'O':

case 'u':

case 'U':

count++;

break;

}

}

System.out.println("Number of vowels are "+count);

}

Reversing a string

Public class ReverseString

{

public static void main(String args[]) {

Scanner sc = new Scanner(system.in);

String S=sc.nextLine();

String reverse = “ ”;

For (int i = S.length()-1;i>=0;i--) { // n-1

reverse = reverse+S.charAt(i);

}

System.out.println(reverse);

}

}

Reverse a Number

public class ReverseNumber

{

public static void main(String args[])

{

int number = 123456, reverse = 0;

while(number != 0)

{

int remainder = number % 10;

reverse = reverse \* 10 + remainder;

number = number/10;

}

System.out.println("The reverse of the given number is: " + reverse);

}

}

Sum of n natural numbers

Public class Sum {

public static void main(String args[]) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter a no");

int n = sc.nextInt();

int i,sum=0;

for(i=0;i<=n;i++)

{

sum = sum + i;

}

System.out.println("Sum of first "+n+" natural nos = "+sum);

}

}

Find Prime numbers from 1-100

Public class PrimeNumbers {

Publoc Static void main(String args[]) {

for(int i=2;i<=100;i++) {

boolean isPrime = true;

for(int j=2;j<I;j++) {

if(i%j==0) {

isPrime = false;

break;

}

}

If(isPrime) {

System.out.println(i);

}

}

}

}

To calculate grade of an Student

public class StudentGrades {

public static void main(String args[]) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter average of your marks");

int average = sc.nextInt();

char grade;

if(average>=80){

grade = 'A';

}

else if(average>=60 && average<80){

grade = 'B';

}

else if(average>=40 && average<60){

grade = 'C';

}

else {

grade = 'D';

}

switch(grade) {

case 'A' :

System.out.println("You Got A!");

break;

case 'B' :

System.out.println("You Got B!");

break;

case 'C' :

System.out.println("You Got C!");

break;

case 'D' :

System.out.println("You failed");

break;

}

System.out.println("Your grade is " + grade);

}

}

To find a factorial of a number

Public class Factorial {

public static void main(String args[]) {

int i,fact=1;

int number=5;

for(i=1;i<=number;i++){

fact=fact\*i;

}

System.out.println("Factorial of "+number+" is: "+fact);

}

}

To Check Whether Leap year or not

public class LeapYear {

public static void main(String args[]) {

int year;

System.out.println("Enter an Year - ");

Scanner sc = new Scanner(System.in);

year = sc.nextInt();

if (((year % 4 == 0) && (year % 100!= 0)) || (year%400 == 0))

System.out.println("Specified year is a leap year");

else

System.out.println("Specified year is not a leap year");

}

}

Palindrome

Public class Palindrome

{

public static void main(String args[])

{

String original, reverse = "";

Scanner sc = new Scanner(System.in);

System.out.println("Enter a string/number to check if it is a palindrome");

original = sc.nextLine();

int length = original.length();

for ( int i = length - 1; i >= 0; i-- )

reverse = reverse + original.charAt(i);

if (original.equals(reverse))

System.out.println("Entered string/number is a palindrome.");

else

System.out.println("Entered string/number isn't a palindrome.");

}

}