**Question :- Description**

The following variables have been initialized for you:

int a;

float f;

double d;

You have to cast the variable into different data types as follows:

* Cast a as float to a variable x.
* Cast f as an integer to a variable y.
* Cast d as float to a variable z.

**Hint:**You have to initialize the variables x,y and z of proper data types.

**Note:**The required code to take user input is already written for you. Similar to nextInt(), nextFloat() is used to take floating point data as input and nextDouble() takes a double value as input.  
  
**Sample Input:**

11

12.2345

12.34567895343534611

**Sample Output:**x=11.0 y=12 z=12.345679

import java.util.\*;

public class Source {

public static void main(String[] args) {

Scanner input= new Scanner(System.in);

int a=input.nextInt();

float f=input.nextFloat();

double d=input.nextDouble();

float x;

int y;

float z;

x=(float)a;

y=(int)f;

z=(float)d;

System.out.println("x="+x+" y="+y+" z="+z);

}}

**Celsius to Fahrenheit**

**Description**

Write a Java program to take the temperature from the user in Celsius, convert it into fahrenheit and display it to the user. You can use the following formula for this purpose:

F=9C/5+32

Where, C is the temperature in celsius and F is the temperature in fahrenheit.

**Note:**C will be entered in integer form but F can be a float.

**Sample Input:**1

**Sample Output:**33.8

**Execution Time Limit**

15 seconds

import java.util.\*;

public class Source {

public static void main(String[] args) {

int C;

float F;

Scanner input= new Scanner(System.in);

C=input.nextInt();

F=9\*(float)C/5+32;

System.out.println(F);

}

}

import java.util.\*;

import java.util.Scanner;

public class Source {

public static void main(String[] args) {

String name;

int year;

Scanner input= new Scanner(System.in);

name=input.nextLine();

year=input.nextInt();

int yearOfGraduation;

yearOfGraduation=year+4;

System.out.println("Hello "+name);

System.out.println("Free services till:"+yearOfGraduation);

}

}

import java.util.\*;

public class Source {

public static void main(String[] args) {

int marks[];

marks= new int[5];

Scanner input= new Scanner(System.in);

marks[0]=input.nextInt();

marks[1]=input.nextInt();

marks[2]=input.nextInt();

marks[3]=input.nextInt();

marks[4]=input.nextInt();

System.out.println(marks[4]);

}

}

Reverse strig:-

import java.io.\*;

import java.util.\*;

import java.text.\*;

import java.math.\*;

import java.util.regex.\*;

public class Source {

public static void main(String args[]) {

Scanner sc = new Scanner(System.in);

String input = sc.next();

//write your code here

char ch[]=input.toCharArray();

String revrse="";

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

revrse+=ch[i];

}

//Done: Print the reversed string.

System.out.println(revrse);

}

}

Finf number in aray

import java.io.\*;

import java.util.\*;

import java.text.\*;

import java.math.\*;

import java.util.regex.\*;

public class Source {

public static void main(String args[]) {

//write your code here

int n, x;

int[] numberArray = {1,15,90,40,35,63,79,88,20};

Scanner s = new Scanner(System.in);

n = s.nextInt();

int len = numberArray.length;

int isPresent = 0,i;

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

{

if(numberArray[i] == n)

{

isPresent = 1;

break;

}

else

{

isPresent = 0;

}

}

//Done: Display whether the number is present or not.

if(isPresent == 1)

{

System.out.println((i + 1));

}

else

{

System.out.println("Number not found");

}

}

}

Create a multiplication table that has the 10 multiples of 1, 2 and 3 in an array. Print all the multiples greater than 20.

import java.io.\*;

import java.util.\*;

import java.text.\*;

import java.math.\*;

import java.util.regex.\*;

public class Source {

public static void main(String args[]) {

int[][] table = {

{1, 2, 3, 4, 5, 6, 7, 8, 9, 20},

{2, 4, 6, 8, 10, 12, 14, 16, 18, 20},

{3, 6, 9, 12, 15, 18, 21, 24, 27, 30},

};

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

for(int j = 0; j < table[i].length; ++j) {

if(table[i][j] > 20)

System.out.println(table[i][j]);

}

}

}

}