import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.io.IOException;

**class Intpu\_Stream\_Reader\_1**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.println("Enter Any Character");

int a = br.read();

System.out.println(a);

**}**

**}**

**Input : abcd**

**Output : 97**

**Input : 123456**

**Output : 49**

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.io.IOException;

**class Intpu\_Stream\_Reader\_2**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.println("Enter Any Character");

char a = br.read();

System.out.println(a);

**}**

**}**

Output :- error: incompatible types: possible lossy conversion from int to Char

char a = br.read();

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.io.IOException;

**class Intpu\_Stream\_Reader\_3**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.println("Enter Any Character");

char a = (char)br.read();

System.out.println(a);

**}**

**}**

**Input :- Vishal**

**Output :- V**

**Input :- 1234**

**Output :- 1**

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.io.IOException;

**class Intpu\_Stream\_Reader\_4**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.println("Enter Any Character");

char a = (char)br.read();

char b = (char)br.read();

char c = (char)br.read();

char d = (char)br.read();

System.out.println(a);

System.out.println(b);

System.out.println(c);

System.out.println(d);

**}**

**}**

**Input :- Vishal**

**Output :- V**

**i**

**s**

**h**

**Input :- 1234**

**Output :- 1**

**2**

**3**

**4**

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.io.IOException;

**class Intpu\_Stream\_Reader\_5**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.println("Enter Any Character");

String str = br.readLine();

System.out.println(str);

**}**

**}**

**Input :- Vishal**

**Output :- Vishal**

**Input :- Vishal Soner**

**Output :- Vishal Soner**

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.io.IOException;

**class Intpu\_Stream\_Reader\_6**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.println("Enter Any Two Number : ");

System.out.print("1st : ");

String s1 = br.readLine();

System.out.print("2st : ");

String s2 = br.readLine();

System.out.println("Concat Two String = " + (s1+s2) );

Int x = Integer.parseInt(s1);

int y = Integer.parseInt(s2);

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

**}**

**}**

**Input :-**

**Enter Any Two Number :**

**1st : 10**

**2st : 20**

**Output :-**

**Concat Two String = 1020**

**Sum = 30**

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.io.IOException;

**class Intpu\_Stream\_Reader\_7**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.print("Enter Name : ");

String name = br.readLine();

System.out.print("Enter Gender : ");

char gender = (char)br.read();

System.out.print("Enter Address : ");

String address = br.readLine();

System.out.println("Name : " + name);

System.out.println("Gender : " + gender);

System.out.println("Address : " + address);

}

}

**Input :-**

**Enter Name : Vishal**

**Enter Gender : M**

**Output :-**

**Enter Address : Name : Vishal**

**Gender : M**

**Address :**

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.io.IOException;

**public class Intpu\_Stream\_Reader\_8**

**{**

**public static void main(String args[]) throws IOException**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.print("Enter Name : ");

char a = (char)br.read();

char b = (char)br.read();

char c = (char)br.read();

char d = (char)br.read();

System.out.println(a);

System.out.println(b);

System.out.println(c);

System.out.println(d);

**}**

**}**

**Input :-**

**Enter Name : abcd**

**Output :-**

**a**

**b**

**c**

**d**

**Input :-**

**Enter Name : abc**

**Output**

**a**

**b**

**c**

**Input :-**

**Enter Name : ab**

**Output :-**

**a**

**b**

**Input :-**

**Enter Name : a**

**Output**

**a**

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.io.IOException;

**public class Intpu\_Stream\_Reader\_09**

**{**

**public static void main(String args[]) throws IOException**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.print("Enter Name : ");

int a = br.read();

int b = br.read();

int c = br.read();

int d = br.read();

System.out.println(a);

System.out.println(b);

System.out.println(c);

System.out.println(d);

**}**

**}**

**Input :-**

**Enter Name : 1234**

**Output :-**

**49**

**50**

**51**

**52**

**Input :-**

**Enter Name : 123**

**Output :-**

**49**

**50**

**51**

**13**

**Input :-**

**Enter Name : 12**

**Output :-**

**49**

**50**

**13**

**10**

**Input :-**

**Enter Name : 1**

**Output :-**

**49**

**13**

**10**

**13**

**Input :-**

**Enter Name :**

**Output :-**

**13**

**10**

**13**

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.io.IOException;

**class Q10\_Input\_Stream\_Reader**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.print("Enter Name : ");

String name = br.readLine();

System.out.print("Enter Gender : ");

char gender = (char)br.read();

int temp1 = br.read();

int temp2 = br.read();

System.out.print("Enter Address : ");

String address = br.readLine();

System.out.println("Name : " + name);

System.out.println("Gender : " + gender);

System.out.println("Address : " + address);

System.out.println("temp1 : " + temp1);

System.out.println("temp2 : " + temp2);

**}**

**}**

**Input :-**

**Enter Name : Vishal**

**Enter Gender : M**

**Address :harda**

**Output :-**

**Enter Address : Name : Vishal**

**Gender : M**

**Address : harda**

**Temp : 13**

**Temp : 10**

import java.util.StringTokenizer;

import java.io.IOException;

**class Q11\_Input\_String\_Tokenizer**

**{**

**public static void main(String args[]) throws Exception**

**{**

String s1 = "My Name is Vishal Soner";

StringTokenizer st = new StringTokenizer(s1);

String a1 = st.nextToken();

String a2 = st.nextToken();

String a3 = st.nextToken();

System.out.println(a1);

System.out.println(a2);

System.out.println(a3);

**}**

**}**

**Input :-**

**My Name is Vishal Soner**

**Output :-**

**My**

**Name**

**is**

import java.util.StringTokenizer;

import java.io.IOException;

**class Q12\_Input\_String\_Tokenizer**

**{**

**public static void main(String args[]) throws Exception**

**{**

String s1 = "My Name";

StringTokenizer st = new StringTokenizer(s1);

String a1 = st.nextToken();

String a2 = st.nextToken();

String a3 = st.nextToken();

System.out.println(a1);

System.out.println(a2);

System.out.println(a3);

**}**

**}**

**Input :-**

**My Name is Vishal Soner**

**Output :-**

**Exception in thread "main" java.util.NoSuchElementException**

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.util.StringTokenizer;

import java.io.IOException;

**class Q13\_Input\_String\_Tokenizer**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.print("Enter String : ");

String s1 = br.readLine();

StringTokenizer st = new StringTokenizer(s1);

String a1 = st.nextToken();

String a2 = st.nextToken();

String a3 = st.nextToken();

String a4 = st.nextToken();

System.out.println(a1);

System.out.println(a2);

System.out.println(a3);

System.out.println(a4);

**}**

**}**

**Input :-**

**My Name**

**Output :-**

**Exception in thread "main" java.util.NoSuchElementException**

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.util.StringTokenizer;

import java.io.IOException;

**class Q14\_Input\_String\_Tokenizer**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.print("Enter Number : ");

String s1 = br.readLine();

StringTokenizer st = new StringTokenizer(s1);

int a1 = Integer.parseInt( st.nextToken() );

int a2 = Integer.parseInt( st.nextToken() );

int a3 = Integer.parseInt( st.nextToken() );

int a4 = Integer.parseInt( st.nextToken() );

System.out.println(a1);

System.out.println(a2);

System.out.println(a3);

System.out.println(a4);

System.out.println("Sum : " + (a1+a2+a3+a4) );

**}**

**}**

Input :- 10 20 30 40

Output

10

20

30

40

Sum : 100

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.util.StringTokenizer;

import java.io.IOException;

**class Q15\_Input\_String\_Tokenizer\_hasMoreTokens**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.print("Enter Number : ");

String s1 = br.readLine();

StringTokenizer st = new StringTokenizer(s1);

int sum = 0;

System.out.println(st.hasMoreTokens() );

while( st.hasMoreTokens() )

{

String temp = st.nextToken();

System.out.println(temp);

sum += Integer.parseInt(temp);

}

System.out.println(st.hasMoreTokens() );

System.out.println("\nSum : " + sum);

**}**

**}**

Input :- 10 20 30 40

Output

true

10

20

30

40

false

Sum : 100

import java.io.InputStreamReader;

import java.io.BufferedReader;

import java.util.StringTokenizer;

import java.io.IOException;

**class Q16\_Input\_String\_Tokenizer\_countToken**

**{**

**public static void main(String args[]) throws Exception**

**{**

InputStreamReader isr = new InputStreamReader(System.in);

BufferedReader br = new BufferedReader(isr);

System.out.print("Enter Number : ");

String s1 = br.readLine();

StringTokenizer st = new StringTokenizer(s1);

int sum = 0;

System.out.println( "Total Tokens : " + st.countTokens() );

while( st.countTokens() != 0)

{

String temp = st.nextToken();

System.out.println(temp);

sum += Integer.parseInt(temp);

}

System.out.println( "Total Tokens : " + st.countTokens() );

System.out.println("\nSum : " + sum);

**}**

**}**

**Input :-**

**Enter Number : 10 20 30 40**

**Output :-**

**Total Tokens : 4**

**10**

**20**

**30**

**40**

**Total Tokens : 0**

**Sum : 100**

import java.util.Scanner;

import java.io.IOException;

**class Q17\_Scanner\_Next**

**{**

**public static void main(String args[]) throws Exception**

**{**

Scanner sc = new Scanner(System.in);

System.out.print("Enter Number : ");

String s1 = sc.next();

String s2 = sc.next();

String s3 = sc.next();

String s4 = sc.next();

System.out.println("Output : " + s1);

System.out.println("Output : " + s2);

System.out.println("Output : " + s3);

System.out.println("Output : " + s4);

**}**

**}**

**Input :-**

**Enter Number : 10 20 30 40 50**

**Output : 10**

**Output : 20**

**Output : 30**

**Output : 40**

**Input :-**

**Enter Number : 10**

**20**

**30**

**40**

**Output : 10**

**Output : 20**

**Output : 30**

**Output : 40**

**Input :-**

**Enter Number : Enter**

**10**

**20**

**30**

**40**

**Output : 10**

**Output : 20**

**Output : 30**

**Output : 40**

import java.util.Scanner;

import java.io.IOException;

**class Q18\_Scanner\_nextLine**

**{**

**public static void main(String args[]) throws Exception**

**{**

Scanner sc = new Scanner(System.in);

System.out.print("Enter Number : ");

String s1 = sc.nextLine();

String s2 = sc.nextLine();

System.out.println("Output : " + s1);

System.out.println("Output : " + s2);

**}**

**}**

**Input :-**

**Enter Number : 10 20**

**Output :-**

**Output : 10**

**Output : 20**

import java.util.Scanner;

import java.io.IOException;

**class Q19\_Scanner\_nextInt**

**{**

**public static void main(String args[]) throws Exception**

**{**

Scanner sc = new Scanner(System.in);

System.out.print("Enter 1st : ");

int a1 = sc.nextInt();

System.out.print("Enter 2nd : ");

int a2 = sc.nextInt();

System.out.println("a1 : " + a1);

System.out.println("a2 : " + a2);

System.out.println("Sun : " + (a1+a2) );

**}**

**}**

**Input :-**

**Enter 1st : 10**

**Enter 2nd : 20**

**Output :-**

**a1 : 10**

**a2 : 20**

import java.util.Scanner;

import java.io.IOException;

**class Q20\_Command\_Line\_Argument**

**{**

**public static void main(String args[]) throws Exception**

**{**

Scanner sc = new Scanner(System.in);

String a1 = args[0];

String a2 = args[1];

String a3 = args[2];

System.out.println("a1 : " + a1);

System.out.println("a2 : " + a2);

System.out.println("a3 : " + a3);

System.out.println("Sum : " + (a1+a2+a3) );

int b1 = Integer.parseInt(a1);

int b2 = Integer.parseInt(a2);

int b3 = Integer.parseInt(a3);

System.out.println("Sum : " + (b1+b2+b3) );

**}**

**}**

**javac Q20\_Command\_Line\_Argument.java**

**Input :-**

**java Q20\_Command\_Line\_Argument 10 20 30**

**a1 : 10**

**a2 : 20**

**a3 : 30**

**Sum : 102030**

**Sum : 60**

import java.util.Scanner;

import java.io.IOException;

**class Q21\_Command\_Line\_Argument**

**{**

**public static void main(String args[]) throws Exception**

**{**

Scanner sc = new Scanner(System.in);

String a1 = args[0];

String a2 = args[1];

String a3 = args[2];

System.out.println("a1 : " + a1);

System.out.println("a2 : " + a2);

System.out.println("a3 : " + a3);

System.out.println("Sum : " + (a1+a2+a3) );

int b1 = Integer.parseInt(a1);

int b2 = Integer.parseInt(a2);

int b3 = Integer.parseInt(a3);

System.out.println("Sum : " + (b1+b2+b3) );

**}**

**}**

javac Q21\_Command\_Line\_Argument.java

Input :-

java Q21\_Command\_Line\_Argument

Exception thread "main" java.lang.ArrayIndexOutOfBoundsException: 0

java Q21\_Command\_Line\_Argument 10

Exception thread "main" java.lang.ArrayIndexOutOfBoundsException: 1

java Q21\_Command\_Line\_Argument 10 20

Exception thread "main" java.lang.ArrayIndexOutOfBoundsException: 2

java Q21\_Command\_Line\_Argument 10 20 30

a1 : 10

a2 : 20

a3 : 30

Sum : 102030

Sum : 60

java Q21\_Command\_Line\_Argument 10 20 30 40

a1 : 10

a2 : 20

a3 : 30

Sum : 102030

Sum : 60