Program 1:

**package** com.hcl.assign1;

/\*\*

\* This class is created for checking the data type and size of input

\*

\*/

**public** **class** Program {

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

// **TODO** Auto-generated method stub

**if** (args.length == 0) {

System.***out***.println(

"Usage description of the program\n\nThe program is used for finding the datatype and size of the input\n Need a input value to detemine it \ne.g. java Program 1 a Sss 4.563");

}

System.***out***.println("Output : ");// printing output

**for** (**int** i = 0; i < args.length; i++)// for loop

{

**try** {

**int** a = Integer.*parseInt*(args[i]);// checking integer

System.***out***.println(a + " integer " + Integer.***SIZE*** / 8);// size of integer

} **catch** (Exception e1) {

**try** {

System.***out***.println(Float.*parseFloat*(args[i]) + " float/double " + Float.***SIZE*** / 8);// checking

// float/double

// and size of

// float/double

} **catch** (Exception e) {

**if** (args[i].length() == 1) // if condition

{

System.***out***.println(args[i] + " char " + Character.***SIZE*** / 8);// checking character and size of

// character

} **else** {

System.***out***.println(args[i] + " string " + args[i].length());// checking string and size of

// string

}

}

}

}

}

}

Input

1 a Sss 4.5643

Output:

