## Aim:

Write a Java program that demonstrates the use of all primitive data types. Your program should prompt the user to input values for each primitive data type (byte, short, int, long, float, double, char, boolean) and then print out those values.

## Source Code:

PrimitiveDataTypes.java

```java
import java.io.*;
import java.util.Scanner;
class PrimitiveDataTypes
{
public static void main(String args[])
    {
        byte a;
        short b;
        int c;
        long d;
        float e;
        double f;
        char g;
        boolean h;
        Scanner obj=new Scanner(System.in);
        System.out.print("Byte value: ");
        a=obj.nextByte();
        System.out.print("short value: ");
        b=obj.nextShort();
        System.out.print("int value: ");
        c=obj.nextInt();
        System.out.print("long value: ");
        d=obj.nextLong();
        System.out.print("float value: ");
        e=obj.nextFloat();
        System.out.print("double value: ");
        f=obj.nextDouble();
        System.out.print("char value: ");
        g=obj.next().charAt(0);
        System.out.print("boolean value (true/false): ");
        h=obj.nextBoolean();
        System.out.println("byteVar: "+a);
        System.out.println("shortVar: "+b);
        System.out.println("intVar: "+c);
        System.out.println("longVar: "+d);
        System.out.println("floatVar: "+e);
        System.out.println("doubleVar: "+f);
        System.out.println("charVar: "+g);
        System.out.println("booleanVar: "+h);

    }
}
```

# Execution Results - All test cases have succeeded!

| Test Case - 1 |
|---|
| User Output |
| Byte value:  127 |
| short value:  32767 |
| int value:  2147483647 |
| long value:  9223372036854775807 |
| float value:  123.456 |
| double value:  9876.54321 |
| char value:  Z |
| boolean value (true/false):  true |
| byteVar: 127 |
| shortVar: 32767 |
| intVar: 2147483647 |
| longVar: 9223372036854775807 |
| floatVar: 123.456 |
| doubleVar: 9876.54321 |
| charVar: Z |
| booleanVar: true |