

JAVA - J2EE Batch 2

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Assignment-5

3 PROBLEM STATEMENT -DETERMINE THE TYPE OF PRIMITIVE VALUE AND CONVERT TO ITS WRAPPER CLASS VALUE

Given a primitive value, determine primitive type and convert given primitive type value to its Wrapper class value

This assignment contains a class named WrapperClassConvert with the following method:

```
+convertToWrapper(object) : object
    -Should accept object of primitive type as input and return Object
    of wrapper class as result
    -Should determine and convert given primitive type to its wrapper
    class
    -Should return "Give proper primitive as input" if object is null
    or not primitive type of data
```

3.1 EXAMPLE

```
Sample Input:
10
Expected Output: 10
```

```
Sample Input:
Expected Output:Give proper primitive type as input
```

```
Sample Input:
"Programming"
Expected Output:Give proper primitive type as input
```

3.2 INSTRUCTIONS

- Avoid printing unnecessary values other than expected output as given in sample

- Take care of whitespace/trailing whitespace
- Do not change the provided class/method names unless instructed
- Follow best practices while coding

4 PROGRAM

Copy the program into Codelabs/Any of the IDE, complete the instructions as per problem statement

```
public class WrapperClassConvert {

    //write logic to determine and convert given primitive type to its
    wrapper class and return result
    public Object convertToWrapper(Object input) {
        return null;
    }
    psvm(){
        //Scanner input,
        //if()
        //    convertToWrapper()
        //else
        //    sop("Give proper primitive type as input")
    }
}
```



```
1 package Practice;
2
3 import java.util.Scanner;
4
5 public class WrapperClassConvert {
6
7     public Object convertToWrapper(Object input) {
8
9         if (input instanceof Integer) {
10             return Integer.valueOf((int) input);
11         } else if (input instanceof Long) {
12             return Long.valueOf((long) input);
13         } else if (input instanceof Double) {
14             return Double.valueOf((double) input);
15         } else if (input instanceof Float) {
16             return Float.valueOf((float) input);
17         } else if (input instanceof Character) {
18             return Character.valueOf((char) input);
19         } else if (input instanceof Byte) {
20             return Byte.valueOf((byte) input);
21         } else if (input instanceof Short) {
22             return Short.valueOf((short) input);
23         } else if (input instanceof Boolean) {
24             return Boolean.valueOf((boolean) input);
25         } else if (input == null) {
26             return "Give proper primitive type as input";
27         } else {
28             return "Give proper primitive type as input";
29         }
30     }
}
```

```

public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    WrapperClassConvert converter = new WrapperClassConvert();

    System.out.println("Sample Input:");
    Object input = null;
    if (scanner.hasNextInt()) {
        input = scanner.nextInt();
    } else if (scanner.hasNextLong()) {
        input = scanner.nextLong();
    } else if (scanner.hasNextDouble()) {
        input = scanner.nextDouble();
    } else if (scanner.hasNextFloat()) {
        input = scanner.nextFloat();
    } else if (scanner.hasNext()) {
        input = scanner.next();
    } else if (scanner.hasNextBoolean()) {
        input = scanner.nextBoolean();
    }

    Object result = converter.convertToWrapper(input);
    System.out.println("Output: " + result);
}
}

```

Console × Coverage
 <terminated> WrapperClassConvert [Java Application] C:\Users\hp\AppData\Local\Temp\Rar\$EXa32224.20570\eclipse\plugin:
 Sample Input:
 10
 Output: 10

Console × Coverage
 <terminated> WrapperClassConvert [Java Application] C:\Users\hp\AppData\Local\Temp\Rar\$EXa32224.20570\eclipse\plugins\org:
 Sample Input:
 "Programming"
 Output: Give proper primitive type as input