

Wrapper Class

Subject: CSW1(CSE2141)
Session: August 2023 to Feb 2024
Branch: CSE&CSIT
Section : All

Explain the following concepts:

- *Wrapper class*
- *Need for the wrapper class*
- *Different techniques of wrapping*
- *Autoboxing*
- *Unboxing*

- Q1.** Write a program to convert an integer to an Integer object.
- Q2.** Write a program to convert a float to a Float object.
- Q3.** Write a program to convert a double to a Double object.
- Q4.** Write a program to convert a boolean to a Boolean object.
- Q5.** Write a program to read an integer as a string and convert it to an Integer object.
- Q6.** Write a program to read a float as a string and convert it to a Float object.
- Q7.** Write a program to read a double as a string and convert it to a Double object.
- Q8.** Write a program to read a boolean as a string and convert it to a Boolean object.

Explain the concept of converting a base data type to an object type(Wrapping) using the valueOf() method.

- Q9.** Write a program that reads to convert int, float, double, and boolean as string types and convert them to respective object types using the valueOf method.

- Q10.** Write a program to design a simple calculator (only +,-,*,/ operations). The calculator works as follows:
Input: "123+345"
Output: Sum=468
Input: "5*10"
Output: mul=50

*Explain the concept of converting object type to base type.
Explain the method used to do so.*

- Q11.** Write a program that reads a double number as a sting and converts it to a double base type.
- Q12.** Write a program that reads an integer number as a sting and converts it to an int base type.