

Method overloading

Method Overloading

- ➤ Method overloading is a feature that allows us to have more than one method with the same name, so long as we use different parameters.
- It is the ability to create multiple methods of the same name with different implementations.



Method Overloading

- It improves the code readability and re-usability.
- It is easier to remember one method name instead of remembering multiple names.
- Overloaded methods give programmers the flexibility to call similar method with different types of data.



Method Overloading



```
public static int sumTwoNumbers(int a, int b) {
   return a + b;
}

public static int sumThreeNumbers(int a, int b, int c) {
   return a + b + c;
}

public static int sumFourNumbers(int a, int b, int c, int d) {
   return a + b + c + d;
}
```

BAD PRACTICE!

```
public static int sum(int a, int b) {
   return a + b;
}

public static int sum(int a, int b, int c) {
   return a + b + c;
}

public static int sum(int a, int b, int c, int d) {
   return a + b + c + d;
}
```

GOOD PRACTICE!

Remember

• Return Type of the overload method does not have to be same.

• Parameters MUST be different

• Pretty much all methods in java, can be overload

