**What is Encapsulation in Java**

Encapsulation is process of ***wrapping code*** and data together into a single unit.  
  
We can create fully encapsulated class by making the entire **data member will be private** and create getter, setter method to access that data member.  
  
POJO class is the best example of fully encapsulated class.  
  
Encapsulation is also known as "**Data hiding**" because they are protecting data which is prone to change.

Example :

**public** **class** Author {

**private** String name;

**private** String email;

**private** String gender;

**public** Author(String name, String email, String gender) {

**this**.name = name;

**this**.email = email;

**this**.gender = gender;

}

**public** String getName() {

**return** name;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

**public** String getGender() {

**return** gender;

}

@Override

**public** String toString() {

**return** "Name = " + name + "\nEmail = " + email + "\nGender = "

+ gender + "\n";

}

}

**public** **class** AuthorTest {

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

Author ob=**new** Author("Herbert Schildt", "MC-Hill@gmail.com", "Male");

System.*out*.println(ob);

ob.setEmail("MC-Hill@yahoo.com");

System.*out*.println(ob);

}

}