**Assignment 1: Student Encapsulation**

```
class Student {
	private int id;
	private String name;

	public void setId(int id) {
		this.id = id;
	}

	public int getId() {
		return id;
	}

	public void setName(String name) {
		this.name = name;
	}

	public String getName() {
		return name;
	}
}
```

**Assignment 2: Bank Account**

```
class BankAccount {
	private int accountNumber;
	private double balance;

	public void setAccountNumber(int accountNumber) {
```

```
        this.accountNumber = accountNumber;
    }

    public int getAccountNumber() {
        return accountNumber;
    }

    public void setBalance(double balance) {
        if(balance >= 0) {
            this.balance = balance;
        }
    }

    public double getBalance() {
        return balance;
    }
}
```

**Assignment 3: Employee Salary**

```
class Employee {
    private int empId;
    private double salary;

    public void setEmpId(int empId) {
        this.empId = empId;
    }

    public int getEmpId() {
        return empId;
```

```
    }

    public void setSalary(double salary) {
        if(salary > 0) {
            this.salary = salary;
        }
    }

    public void displaySalary() {
        System.out.println(salary);
    }
}
```

**Assignment 4: Product Price**

```
class Product {
    private double price;

    public void setPrice(double price) {
        if(price >= 100 && price <= 100000) {
            this.price = price;
        }
    }

    public double getPrice() {
        return price;
    }
}
```

**Assignment 5: Login Credentials**

```
class User {
	private String email;
	private String password;

	public void setEmail(String email) {
		this.email = email;
	}

	public String getEmail() {
		return email;
	}

	public void setPassword(String password) {
		if(password.length() >= 8) {
			this.password = password;
		}
	}
}
```

**Assignment 6: Customer Profile**

```
class Customer {
	private String name;
	private int age;

	public void setName(String name) {
		this.name = name;
	}

	public void setAge(int age) {
```

```
            if(age >= 18) {
                this.age = age;
            }
        }

        public String getCustomerDetails() {
            return name + " " + age;
        }
}
```

**Assignment 7: Mobile Phone**

```
class Mobile {
        private String brand;
        private double price;

        public void setBrand(String brand) {
            this.brand = brand;
        }

        public void setPrice(double price) {
            this.price = price;
        }

        public double getPriceWithGST() {
            return price + (price * 0.18);
        }
}
```

**Assignment 8: ATM System**

```
class ATMAccount {
	private int pin;
	private double balance;

	public void setPin(int pin) {
		if(pin >= 1000 && pin <= 9999) {
			this.pin = pin;
		}
	}

	public void setBalance(double balance) {
		this.balance = balance;
	}

	public void withdraw(double amount) {
		if(amount <= balance) {
			balance -= amount;
		}
	}
}
```

**Assignment 9: College Admission**

```
class Admission {
	private int marks;
	private String grade;

	public void setMarks(int marks) {
		this.marks = marks;
		assignGrade();
```

```
    }

    private void assignGrade() {
        if(marks >= 80) grade = "A";
        else if(marks >= 60) grade = "B";
        else if(marks >= 40) grade = "C";
        else grade = "Fail";
    }

    public String getGrade() {
        return grade;
    }
}
```

**Assignment 10: Insurance Policy**

```
class Policy {
    private int policyId;
    private double premium;

    public void setPolicyId(int policyId) {
        this.policyId = policyId;
    }

    public void calculatePremium(int age) {
        if(age < 25) premium = 5000;
        else if(age <= 40) premium = 4000;
        else premium = 3000;
    }
```

```
	public double getPremium() {
		return premium;
	}
}
```