Task 2 :  
  
SELECT \* FROM [Sheet1$] WHERE NationalID LIKE '1234\_\_\_\_\_\_\_\_' AND LEN(NationalID) = 14 AND LEN(EnglishFirstName) > 0 AND LEN(EnglishFamilyName) > 0 AND LEN(BirthCountry) > 0 AND LEN(Nationality) > 0 AND LEN(Gender) > 0 AND LEN(Religion) > 0 AND LEN(NationalityCategory) > 0 AND SchoolID IN (SELECT SchoolID FROM School WHERE Gender = 'Mixed' OR Gender = Gender)

Code Assessment:   
public enum CardType {

PREMIUM, MASTER, YOUTH, OTHER

}  
1-  
 public boolean processTransaction(Card card) {

if (card.getType() == CardType.PREMIUM) {

return false;

} else if (card.getType() == CardType.MASTER) {

acceptTransaction();

return true;

} else if (card.getType() == CardType.YOUTH) {

return false;

} else {

return error();

}

}  
  
  
2- Find the error in the following piece of code:

- Java is case-sensitive, so While should be while.

* The loop condition n < 10 will result in an infinite loop because the value of n is never incremented within the loop, leading to the condition always being true.
* Inside the loop, int a = n + 2; will always set a to 2 since n is always initialized to 0.
* inside the loop, int b = a + n; will always result in b being equal to a since n is always 0.
* The variable a and b are declared inside the loop scope, so they are not accessible outside the loop.
* Outside the loop, the variables a and b are not declared in the scope, so printing them will result in compilation errors.
* There's a syntax error in the System.out.println statements, where curly quotes are used instead of straight quotes.

Types of Locators in Selenium:

* XPath
* CSS Selector
* ID
* Name
* Class Name
* Tag Name
* Link Text
* Partial Link Text

Types of Drivers in WebDriver:

* ChromeDriver

- FirefoxDriver (GeckoDriver)

- InternetExplorerDriver

- EdgeDriver

- SafariDriver

- OperaDriver

Types of Waits in WebDriver:

* Implicit Wait
* Explicit Wait
* Fluent Wait

Difference between driver.quit() and driver.close():

* driver.quit(): Closes all browser windows and terminates the WebDriver session. It also releases the WebDriver server gracefully.
* driver.close(): Closes the current browser window or tab. If it's the only window/tab open, it will also terminate the WebDriver session, similar to driver.quit(), but it doesn't release the WebDriver server gracefully.