# Tutorial 01
## Primitive Types | Variables | Assignment

## Exercise 1:

❏ What is the output of the following program?
```
public class HelloWorld {
  public static void main(String[] args) {
    System.out.println("Hi");System.out.print("Welcome to
CSC111.");
    System.out.print("This is a great course.");
    System.out.print(";)");
  }
}
```

## Exercise 2:

❏ Define an int variable named x and assign it the value 8.
❏ Define an int variable named xyz and assign it the value 100.
❏ Define a String variable named hi_all and assign it the value "Hi all". Use two separate statements for declaration and definition (assignment).
❏ Define a variable addResult of type double and assign it the value of adding variable xyz to x.

## Exercise 3:

❏ What is wrong with the following statements (assume variables are defined when needed):
```
3 = x;
Double my-var = 7.3;
3 + x = y;
y – x = z + x;
System.out.println("x " x);
```

## Exercise 4:

❏ What is the output of the following program? Can we improve output formatting?
```
public class HelloWorld {
  public static void main(String[] args) {
    int x = 10;
    System.out.print("x" + x + ", ");
    double y = 2.2;
    y = y * x;
    System.out.println("y: " + y);
  }
}
```

# Tutorial 01 Solutions

## Exercise 1:

```
Hi
Wlcome to CSC111.This is a great course.;)
```

## Exercise 2:

❑ Define an int variable named x and assign it the value 8
```
int x = 8;
```
❑ Define an int variable named xyz and assign it the value 100
```
int xyz = 100;
```
❑ Define a String variable named hi_all and assign it the value "Hi all". Use two separate statements for declaration and definition (assignment)
```
String hi_all;
hi_all = "Hi all";
```
❑ Define a variable addResult of type double and assign it the value of adding variable xyz to x
```
double addResult = x + xyz
```

## Exercise 3:

| Wrong | Explanation |
|---|---|
| `3 = x;` | assignment's left side of is a variable |
| `Double my-var = 7.3;` | variable's name cannot contain '-' |
| `3 + x = y;` | assignment's left side of is a variable |
| `y – x = z + x;` | assignment's left side of is a variable |
| `System.out.println("x " x);` | + must be used to concatenate strings |

## Exercise 4:

```
x10, y: 2.2
```