# Short Concept Exercises

## EBU4201 Teaching Week 2: 2018/19

# Fill in the Gaps

- Consider the incomplete Java program **Group**. It contains a method that adds up all values in an array.

```java
public abstract class Group {
  public void printGroup(int[] array) {
    // code missing
  }
}
```

- Use the collection of statements on the right, together with some extra right brackets (}) to fill out the abstract **Group** class.

```java
for (int i=0; i<array.length; i++)
System.out.println(sum);
int sum = 0;
sum += array[i];
```

- Then write a new concrete class **MyGroup** that extends **Group**, and also write a test class that invokes the **printGroup()** method with the values {12,34,43,21} and displays their sum.

```java
public class TestingGroup {
    // code missing
}
```

# Predict the Question

- Determine the set of questions that should result in the following answers:

What is the Question for this Answer?

"It is a class that must be extended in order to be instantiated. "

What is the Question for this Answer?

"This is the method that is called when the object must be represented as a text value, or when an object is referred to, in a manner in which a string is expected."

What is the Question for this Answer?

"This allows you to treat a class like any class within its object hierarchy. For example, a `Student` could be treated like a `Person` object".

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