1. Write a Java method to find the smallest number among three numbers.
Input the first number: 25
Input the Second number: 37
Input the third number: 29
Expected Output: `The smallest value is 25.0`

2. Write a Java method to display the middle character of a string.
Note: a) If the length of the string is odd there will be two middle characters.
b) If the length of the string is even there will be one middle character.
Input a string: 350
Expected Output:`The middle character in the string: 5`

3. Write a Java method to count all vowels in a string.
Input the string: Education
Expected Output: `Number of  Vowels in the string: 5`

4. Write a Java method to count all words in a string.
Input the string: The quick brown fox jumps over the lazy dog.
Expected Output: `Number of words in the string: 9`

5. Write a Java method to compute the future investment value at a given interest rate for a specified number of years.
Sample data (Monthly compounded) and Output:
Input the investment amount: 1000
Input the rate of interest: 10
Input number of years: 5

Expected Output:

```
Years    FutureValue
1            1104.71
2            1220.39
3            1348.18
4            1489.35
5            1645.31
```

6. Write a Java method to find all twin prime numbers less than 100.
Expected Output:

```
(3, 5)
(5, 7)
(11, 13)
(17, 19)
(29, 31)
(41, 43)
(59, 61)
(71, 73)
```

7) The Java class called `Holiday` is started below. An object of class `Holiday` represents a holiday during the year. This class has three instance variables:

- `name`, which is a `String` representing the name of the holiday
- `day`, which is an `int` representing the day of the month of the holiday
- `month`, which is a `String` representing the month the holiday is in

```
public class Holiday {
private String name;
private int day;
private String month;
// your code goes here
}
```

a) Write a constructor for the class `Holiday`, which takes a `String`representing the name, an `int` representing the day, and a `String` representing the month as its arguments, and sets the class variables to these values.

b) Write a method `inSameMonth`, which compares two instances of the class `Holiday`, and returns the Boolean value `true` if they have the same `month`, and `false` if they do not.

c) Write a method `avgDate`which takes an array of base type `Holiday` as its argument, and returns a `double` that is the average of the `day` variables in the `Holiday` instances in the array. You may assume that the array is full (i.e. does not have any `null` entries).

d) Write a piece of code that creates a `Holiday` instance with the name “Independence Day”, with the day “4”, and with the month “July”.