

Recruitment tasks

1. Write a class "Rectangle" with all necessary methods and fields, so that this piece of code would work:

```
public static void main(String[] args) throws Exception {  
    Rectangle rectangle = new Rectangle(3, 4);  
    System.out.println("Area: " + rectangle.area()); //output: 12  
}
```

2. Write a program that searches the list of 'capitals' and checks if 'London' is in it. If so, the program should output "True", otherwise it should output "False".

The program can be written in 2 ways: using a loop, and using Streams;

Sample list:

```
List<String> capitals = new ArrayList<>(  
    Arrays.asList("Paris", "Warsaw", "Berlin", "Moscow",  
    "London", "Madrid"));
```

3. Write a program that tries to convert each element to a Double from the given String array.

If this is not possible, the program should write "Not possible to convert string 'A' to double", where 'A' is our String and move on to the next element in array.

Sample array:

```
String[] array = new String[]{"3.14", "2.0", "XYZ", "0.5",  
    "ABC", "10.1"};
```