Programming Skills Test

In MyCERT, we require the **Developer** to be proficient in code development. This simple assessment is to access your coding skills in order to solve the provided issue. The assignment can be submit within a week (**deadline**: 7th July 2022, 11:59 pm).

Question 1:
Please use C programming language to solve problem as below:

Output
INPUT (Insert Odd number)> 5 OUTPUT: * ** *** **** *****

Question 2:
Please use Python programming language to solve problem as below:

Output
INPUT (Insert Odd number)> 5 OUTPUT: * *** ***** *** *

Question 3:
Please use PHP programming language to solve problem as below:

Output
INPUT (Insert Odd number)> 5 OUTPUT: ***** *** *

Question 4:

Please use Bash Shell scripting language to solve problem below:

Output
INPUT (Insert Odd number)> 5   OUTPUT: *****   ***   *

Question 5:

Example snippet code below is a bash script which available on a Server A.

```
#!/bin/bash

while true;
do
   m=$((1 + $RANDOM % 999))
   echo $m | nc -l 172.16.22.1 31337
done
```

You are required to develop a client to connect to the Server A. From the input given from Server A, your code shall spell out the number in Bahasa.

For example:

1. If the number is 12, the client shall print out as "dua belas"
2. If the number is 53, the client shall print out as "lima puluh tiga"

Requirements:

*   Complete the exercise in one of the following languages: **Java, Python, PHP, C++**
*   The output from the client: 1) number received from Server A, 2) converted number into a word
*   All code shall be committed into GitHub (or equivalent) public repository with proper commit history

Question 6:

Your task is to design and implement a To-Do list **Android mobile application** where users can:

1.   Add a To-Do item
2.   Delete a To-Do item
3.   List all To-Do items
4.   Mark a To-Do item as completed

Requirements:

- Complete the exercise in one of the following languages*: **Java, .Net, Dart (Flutter)**
- The database should be using SQLite3
- All code shall be committed into GitHub (or equivalent) public repository with proper commit history
- Some unit tests illustrating your testing knowledge is a plus.

Evaluation Criteria:

- Code quality: clean, readable, testable, and maintainable

Submission:

Url link the GitHub project with the following content

1. README
   a. Instruction for running the app
   b. Instruction for testing the app
2. Source Code