



**Below is the written test for Bongo's Android Developer position. Please read through the entire test before starting to write it.**

- 1) Write a function that detects if two strings are anagram e.g. 'bleat' and 'table' are anagrams but 'eat' and 'tar' are not.
- 2) Explain the design pattern used in following:

```
interface Vehicle {  
    int set_num_of_wheels()  
    int set_num_of_passengers()  
    boolean has_gas()  
}
```

- a) Explain how you can use the pattern to create car and plane class?
  - b) Use a different design pattern for this solution.
- 3) Write a video player application with 'Play', 'Forward', 'Rewind' functionalities. Please write pseudocode for this program and explain the design pattern you will use to develop these three functionalities.

**Submission:**

- 1) Implement solution for these problems.
- 2) You are encouraged to write unit tests for functions you implement.
- 3) Upload to github/bitbucket or any other code sharing platform.
- 4) Send an email to [hr@bongobd.com](mailto:hr@bongobd.com) with subject "Bongo Android Code Test" with your code repository URL in the email body.

If you have any questions, please send them to [zubair@bongobd.com](mailto:zubair@bongobd.com) with a subject line of "Questions on Bongo Android Code Test".