**Challenge-1:**

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| **Write a python program, which will find all such numbers between 1000 and 3000 (both included) such that each digit of the number is an even number.** |
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**The numbers obtained should be printed in a comma-separated sequence on a single line.**

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**Challenge-2:**

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| **Write a python program that computes the value of a+aa+aaa+aaaa with a given digit as the value of a.** |
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| **Suppose the following input is supplied to the program:** |
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|  |
| --- |
| **9** |
|  |

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| **Then, the output should be:** |
|  |

**11106**

**Challenge-3:**

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| **A website requires the users to input username and password to register. Write a python program to check the validity of password input by users.** |
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| **Following are the criteria for checking the password:** |
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| **1. At least 1 letter between [a-z]** |
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| **2. At least 1 number between [0-9]** |
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|  |
| --- |
| **1. At least 1 letter between [A-Z]** |
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|  |
| --- |
| **3. At least 1 character from [$#@]** |
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| **4. Minimum length of transaction password: 6** |
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| **5. Maximum length of transaction password: 12** |
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| **Your program should accept a sequence of comma separated passwords and will check them according to the above criteria. Passwords that match the criteria are to be printed, each separated by a comma.** |
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| **Example** |
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| **If the following passwords are given as input to the program:** |
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|  |
| --- |
| **ABd1234@1,a F1#,2w3E\*,2We3345** |
|  |

|  |
| --- |
| **Then, the output of the program should be:** |
|  |

**ABd1234@1**