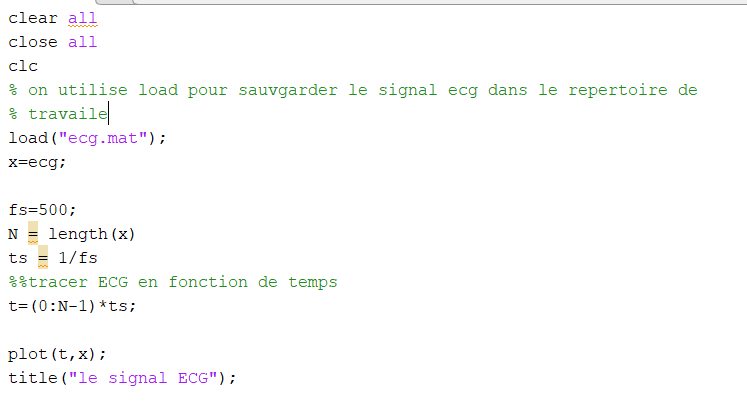
**TP3**

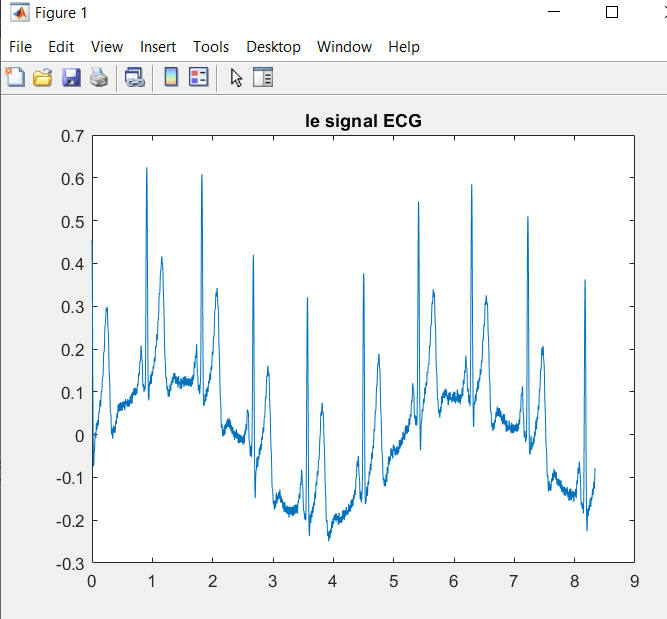
**Traitement d’un signal ECG**

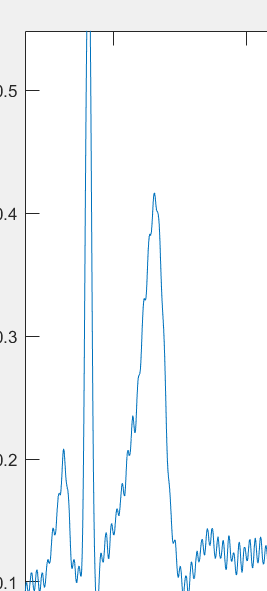
**Nom prénom :** khalid bouhssine

**Professor** : Alae AMMOUR

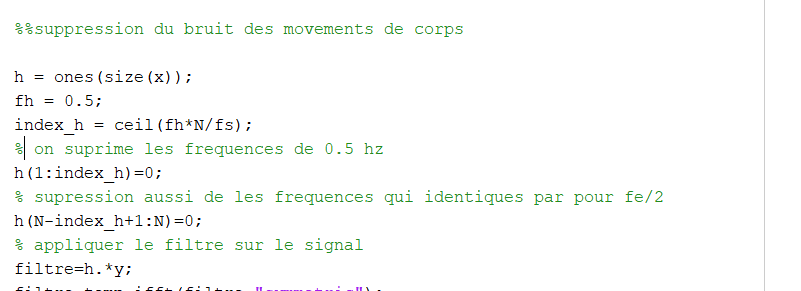
**1-2 )- Sauvegarder le signal ECG**



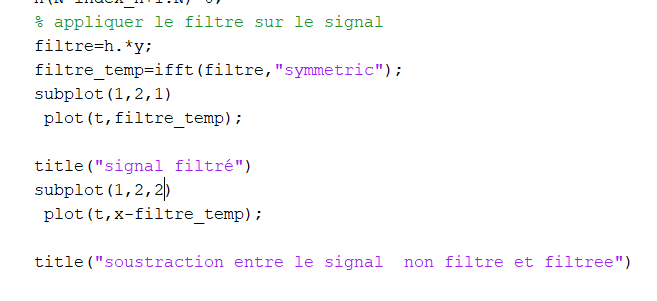


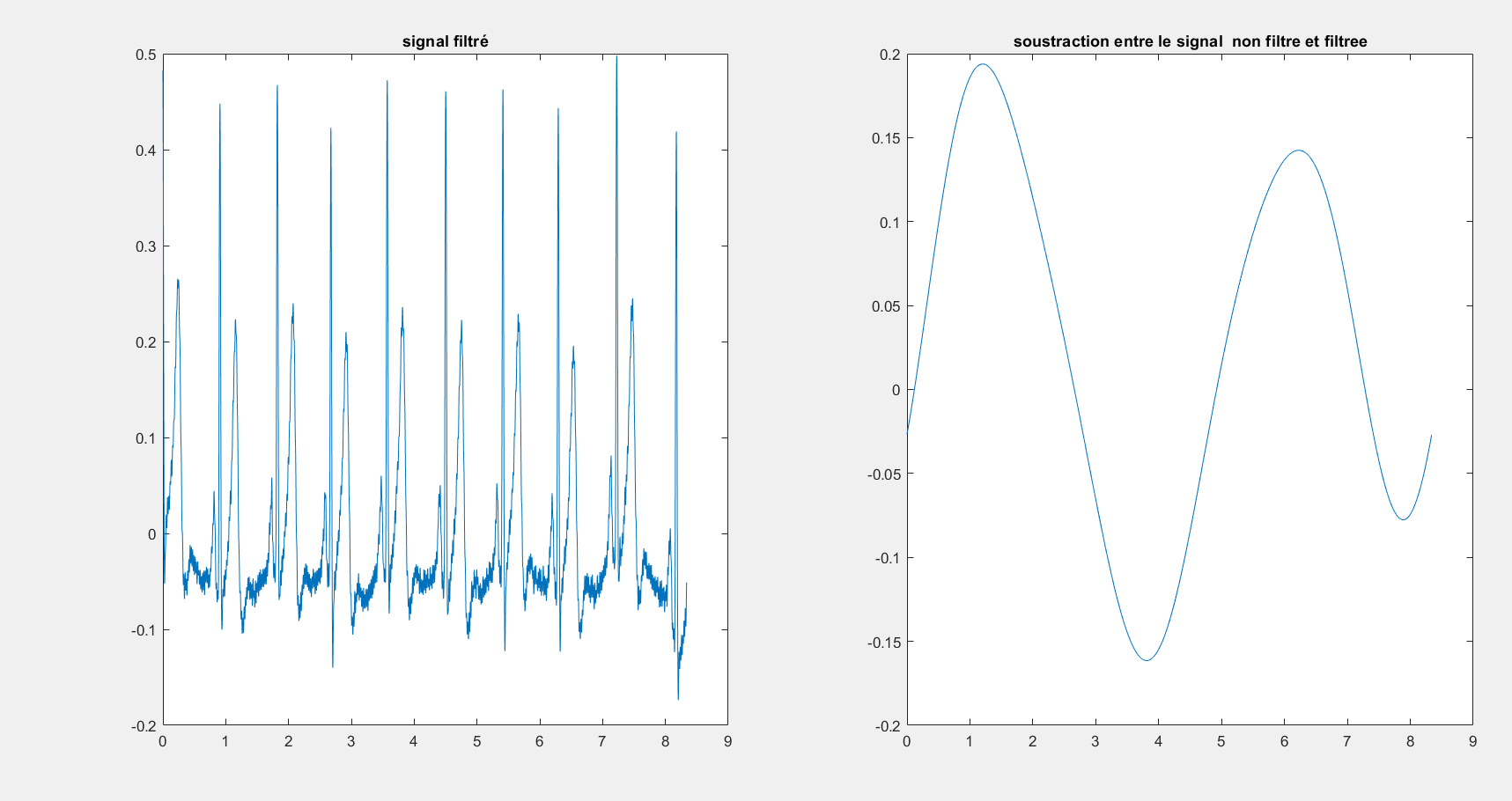


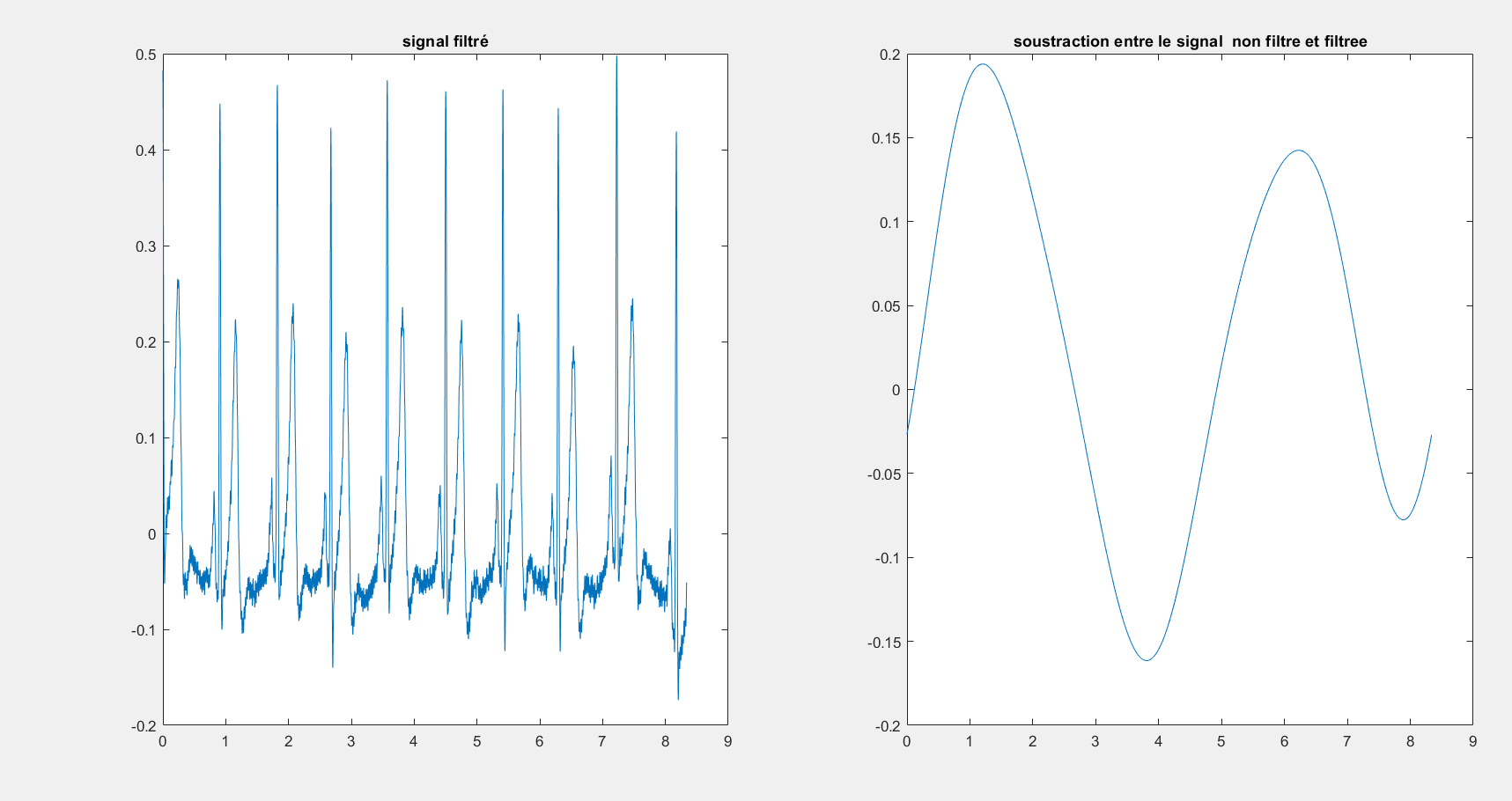
**3 )- Suppression du bruit**



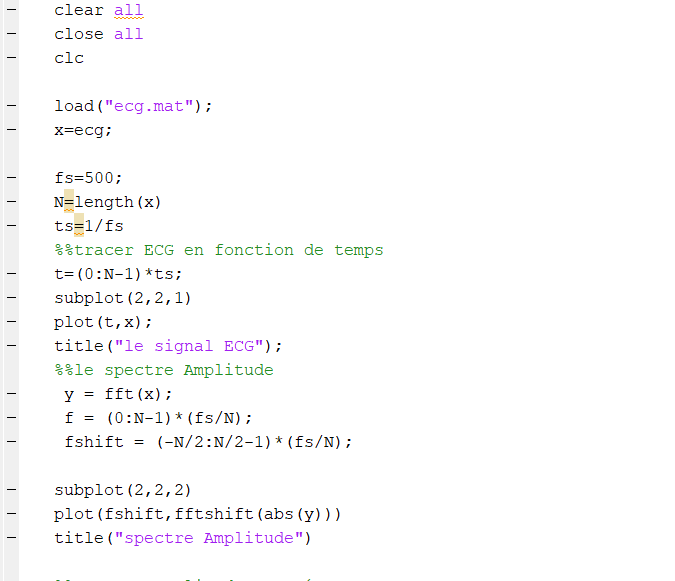
**4 )- Filtrer le signal**



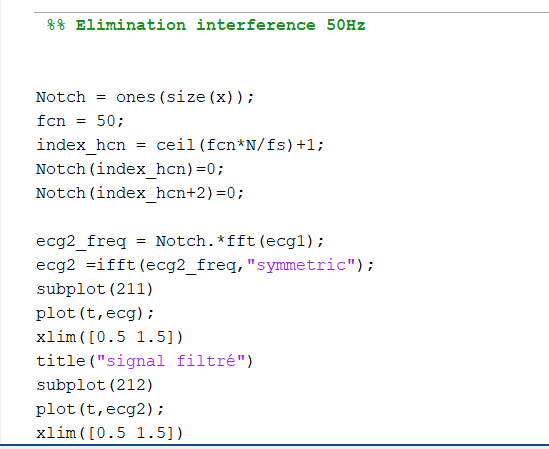




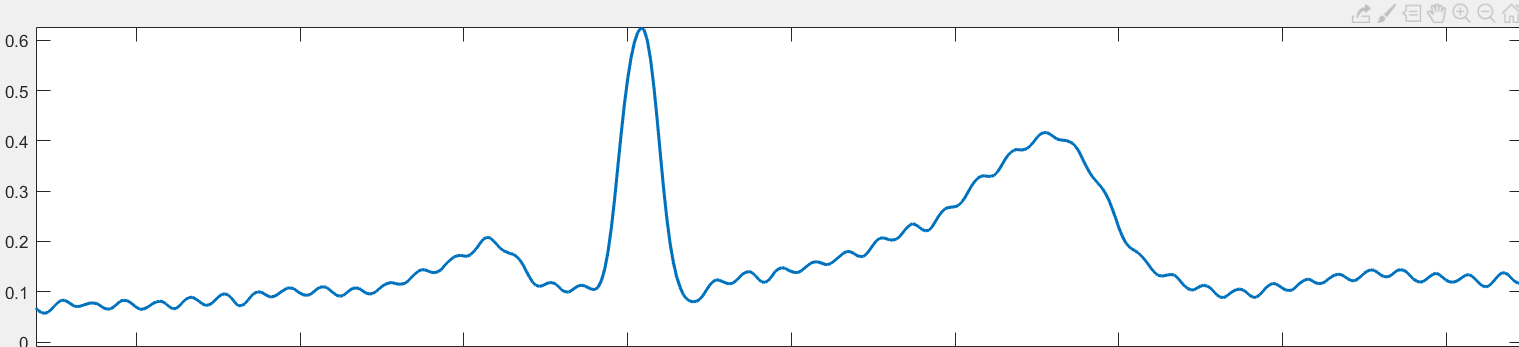
**4 et 5 )- Suppression des interférences des lignes électriques 50Hz**



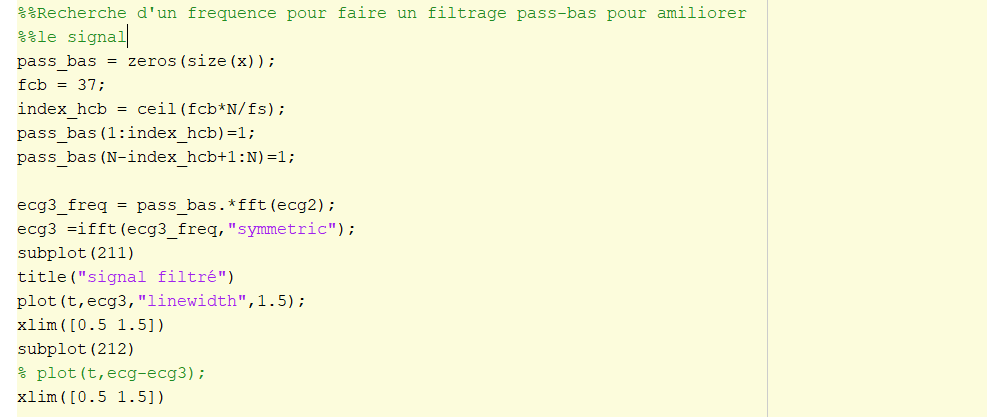
* **On a supprimé les fréquences de 50hz dans le signal par un filtre notch :**



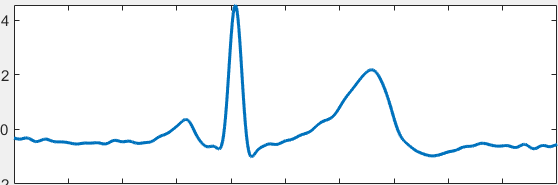
**6 )- le signal filtrée**



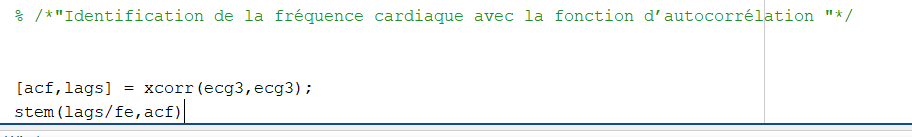
**7 )- Amélioration signal/bruit**



**8 )- affichage**



**9 )- Identification de la fréquence cardiaque**



**On voit que les impulsions de personne très faible à la normale inferieure à 60**

