| **Name** | Adwait Purao |
| --- | --- |
| **UID no.** | 2021300101 |

| **Experiment 4** | |
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| **Problem Statement** | Authenticate the user by measuring the degree of similarity between stored audio Password and Test Audio Password |
| **ALGORITHM:** | 1. Record Audio Password and filter the noise è x[n].  2. Record Test Audio Password and filter the noise è y[n].  4. Calculate X[k] and Y[k] using FFT  4. Calculate |X[k]|2 and |Y[k]|2  5. Calculate Coefficient of Correlation of |X[k]|2 and |Y[k]|2 ==> r  6. Authenticate the user by selecting appropriate Threshold value  (Anything > 0.9). |
| **RESULT:** |  |