Name	Pranay Singhvi
UID no.	2021300126

Experiment 2 - Application	
AIM:	Authentication using Audio Password Verification
PROBLEM DEFINITION:	Authenticate the user by measuring the degree of similarity between stored audio Password and Test Audio Password
ALGORITHM:	<ol> <li>Record Audio Password and filter the noise ==&gt; x[n].</li> <li>Play the recorded Audio signal x[n].</li> <li>Record Test Audio Password and filter the noise ==&gt; y[n].</li> <li>Play the recorded Test Audio signal y[n].</li> <li>Calculate Coefficient of Correlation ==&gt;. r</li> <li>Authenticate the user by selecting appropriate Threshold value (Anything &gt; 0.9).</li> </ol>
RESULT:	Final Output:    PS E:\college\3rd year\SEM 6\F0SIP> python -u "e:\college\3rd year\SEM 6\F0SIP\exp2\case2.py"     Auto-correlation of input signal:     Energy: 404065540.0     Significance at y[0]: 1558.6974     Delayed Auto-correlation of input signal:     Audio Authentication Result: False