Mini report #1 (Advanced Automation) 2020.11.5	
Student #:	Name:
[NOTICE]	
• write by hand	
• due date: 2020/11/11 17:00; pl	lace of submission: room 405(機械建設1号棟 小林)
• check if your answer is correct	before submission by using MATLAB
• don't answer in approximated	values (write $\sqrt{2}$ instead of 1.4142, for example)
Let M be a matrix given as:	$M = \begin{bmatrix} \sqrt{2} & -\frac{j}{\sqrt{2}} \\ \sqrt{2} & \frac{j}{\sqrt{2}} \end{bmatrix}.$
Answer the followings:	-
(1) \bar{M}	

(2) M*

(3) *M***M*

(4) $\lambda_i(M^*M)$

(5) $\sigma_i(M)$

(6) $\bar{\sigma}(M)$