DINESH KUNDAR M	
AM23M022	
DATA SCIENCE: THEORY AND PRACTICE	
THEORY AND EXACICE	
OPTIMIZATION TECHNIQUES:	
OFTIMIZATION IBEHNIQUES!	
Optinization ceitera:	
at point w, fiest deux ative is zero	)
at pomit w, fiest derivative is zero	n,
i) n > 10dd; w > inflection pome	
2) n-even;	al
a) deivalive -> +ve? 3 mi	ninum
2) n reven,  a) derivative -> +ve? \$\overline{v} \rightarrow \frac{1}{2} \text{local}  b) derivative -> -ve; \$\overline{v} \rightarrow \text{local}	
makin	un .
Ain for optimization:	n
Ain for optimization:  Finding w for which J(w) is mulnime	
Throw 1	
Method: Bracketing mellied - Exhaustrie search;	
Melhod 1: Bracine	
- Exhaustre sear,	
$1: \Delta w = (b-a)/n \qquad 5(w)$	
	Ь
$w_1 = \sigma_1$	
$w_2 = w_3 = w_2 + \Delta w$ $w_3 = w_3 = w_2 + \Delta w$	
W3 - W3	



