Intelligent systems DATE
Lecture 1
AI:- creatines machines that solves problems in a way that requires human intelligence
input /output: interact with the environment
leasoning: 1-Deductive Reasoning: (All people will die) then if x is a person and sold of x will die
if A CB & 13 C C then A is subset of C
2_ Inductive Reasoning + form generalizations from Specific tous observations
3_ Abductive: best explanation from incomplete observations othersons
* Logic Resoning is main aspect of AT * Broad based problem Solving is Key Aspect of AT
+ state operator, state

TOAT STATE	PAGE
difficulty- find States	& operators (successor function)
Branching factor: all node	have same number of children
need memory to tree	p trapek of visited nodes terminated before returning to (cycle (imports ~ (20)
	ch (All possible States)
_ unboloned tree 1-	one branch is bigger than others
golution of	13 Fs is Better
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evaluation function:	كوس ولا لا ب	العمرها (لحا) في عدُّ م
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Greedy Search: expand the	node closest to the Grad
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* not the best solution	
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Optimed: min or mex accord	dying to the nature of
the problem	3
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Ax = 1 million of 1	the state of the s
A* Search. Combine Cost & C	Breedy Seachch (heurstic)
f(n) = g(n) +	-h(n)
cost so far	heurstic
- Companisa +	
- Comparison between A*	& Greedy
A* :- Complete & optimal	
Greedy :- prother	
both have San T	
both have Same Time	4 Space Complexity
0	3

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	Tabu Search:	
2	avoid revisiting previously explored Solutions >es	cope local optima
-	* Tabu list: contain previously explored Solutiont	
3	a Tabu Tenure:- johan kiedal die Gell aljander God Solu	121e
B	Termination check:	المسل قادرة
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3		
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