Assignment: 2

9.2] Differentiate between STRIPS & ADL

		· · · · · ·
Erno Parameters	STRIPS	ADI
	` '	
1. Stand For	Standfire Research	Action Description
	Invitute Robbem	language
	Solver	
2. literals. allowed	only Pusitive	Pushive as well.
instates	only Pusitive Foithelligent	as Negertive
	Beaut Ful	D.g. ~ Stwipel Angly
Λ		9
3. Assumption for	closed Gode Assumption	
Unmertioned	anmentioned literals	Assumition! - Unmertimed
Cotesels	cre fabe	literals are Unknown
-		
Cit and IN	4 0.00	0 1
4, oquality	No Support	Supristed.
	*	equality producto
		(x=y) is Built-in
5. Tapes	No support	0.00-101
J. (gre)	100 SULTON	Supported Variables Can have
		_
		types -> P. Porson
G. Effects	Effects are	Conditional
	Conjunctions	Cffed allowed
		(chen Pit)
		()
		The first and the second secon

Srno	Parameters	STIRIPS	PD2
7.	Effect P/1~G	Add P & Delete	011 011 0
4	means;	Q Sellete	Add P/Ing Delpte ap/IG
		,	
g.	Coals	God are Conjudion	Ollar o California
		011 95 30 (WY) W (4) 01)	Allows Conjunctions;
17.			apour / (Pamous
		*	V Smart)
9,	God	only ground literal	quantified
			Uchables
(0)	Scheme includes	Action name Panameter	Action name
		list precondition	Parameters list
		effert	(aplianal) Groups of
			Clauses labelled:
*			Precond, Add, Delete & Update (optional)
7	in the second se		
(1)	modelling arion in seal	LP+ Suterible	Sylable (This
	Certal application		inedequancy of
3	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		STRIPS led to
			ADL).
	, ,		

Q1 Solve the following with Forward or backward chaining or solution Comp one). Use Predicate legic as the language of knowledge representation, dearly specify the Facts & inference rules used, 1.1 Even child sees some aith. No Gitch has both a black Cert & Pointed hat Pointed host (Girch (y), plack Cert) n hers (witch (y), G witch (y) -> good v bad 3. Fx, y sees (Child (al), Witch(y) -> genel) -> genel) -> genel) -> genel) 9. by her (witch G/ -> hard), bluck Cert) 5. If a Seen by Cutch (y), (hild (re)) -> hus (aitch (y)

Witch (y) child (ri) (nood Bao Scen by (1, 2) has (y, Pointed hat has (7, black hat) gets (4, Canoly

91.2.	Fevery witch is good or bad.
	Example 2:
,	Frenj buy er girl a child
2.	Gevery child get a doll or a train or a hump of
	Cocj.
3,	No boy gets and doll
4.	Every child who is bad any lump of coal.
5,	140 child gets a train.
6.	Rem gets lymp of (oa).
7 `	Prove: Ramis bad
Ans ->	
() ()	Inference rulex.
	The rend (pages)
Ì,	for Child (pe) -> boy V child (x) -> girl
. (1	fx gets (child (n), oley) v gets (child (no, pain) v
	Jes Cohild (ne), Coal)
3	
J	The get ((child Cre) boy), ald)

4. Ux gets ((child an - bad), coal) - Ha gets (children, train) 6. gers (pam, (oal) Child (ru) buy gers (coal) gets (dol) gets (hein) Bael CRam)