

## Assignment: 2

Q.2] Differentiate between STRIPS & ADL.

Srno	Parameters	STRIPS	ADL
1.	Stand For	Stanford Research Institute Problem Solver	Action Description Language
2.	Literals. Allowed in states	Only Positive Eg:- Intelligent $\wedge$ Beautiful	Positive as well as Negative E.g. $\neg$ Stupid $\wedge$ Ugly
3.	Assumption for Unmentioned Literals	closed world Assumption Unmentioned Literals are False	Open World Assumption:- Unmentioned Literals are Unknown
4.	equality	No support	Supported. equality Predicate ( $x=y$ ) is Built-in
5.	Types	No support	Supported Variables Can have types $\rightarrow$ P: Person
6.	Effects	Effects are Conjunctions	Conditional Effect allowed (when P:E)

Sr.no	Parameters	STRIPS	ADL
7.	Effect $P \wedge \neg Q$ means:	Add $P \&$ Delete $Q$	Add $P \wedge \neg Q$ Delete $\neg P \wedge Q$
8.	Goals	Goals are Conjunctions	Allows Conjunctions & disjunctions; $\neg$ poor $\wedge$ (Pamou) $\vee$ smart)
9.	Goals	only ground literals	quantified Variables
10)	Scheme includes	Action name parameter list precondition effect	Action name Parameters list (optional) Groups of clauses labelled: Precond, Add, Delete & Update (optional)
11)	Modelling action in real world application	Not Suitable	Suitable (This inadequacy of STRIPS led to development of ADL).