1.	Transfer Following Statements in Logical equivalence using Quantfiers.
	a) "None of my friends are perfect". $\sim Ex(f(x) \sim p(x)) = for$ all $x (\sim f(x) \sim p(x)) = for$
	$all(f(x)->^{\sim}p(x))$
	b) "Some Real numbers are rational". Ex(R(x)^T(x))
	c) "Not all rainy days are cold" Ex(R(x)^~C(x))
	d) "Gold and Silver ornaments are precious." $\forall x((G(x)\lor S(x))\rightarrow P(x))$
	e) "Every clever student is successful" (∀x)((C(x) ^ S(x)) → A(x))
2.	Negate following and represent them in both English and symbolic form
	a) All good students study hard.
	b) There is a triangle whose sum of angles ≠ 180°.
3.	Verify Following argument is valid or not, using rules of inference.
	a) $\{p\rightarrow q, q\rightarrow r, p\}$ are the premises with conclusion r. valid
	b) $\{p\rightarrow q, q\rightarrow r, \neg p\}$ are the premises with conclusion $\neg r$. not valid
	c) The conclusion $\neg p$ follows from $\{p \rightarrow q, q \rightarrow r, \neg r\}$ premises. valid
	d) $\{a \lor b, b \rightarrow c, a \rightarrow d, \neg d\} \rightarrow c $ valid
4.	Check the following arguments are valid or not?
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	a) S1: If today is David's b'day then today is 2 nd april.
	S2: Today is 2 nd April.
	∴ Today is David's B'day.
	Not valid
	b) S1: If Canada is a country then London is a city.
	S2: London is not a city.
	Conclusion: Canada is a country.
	Not valid Charly the agreement is valid on not?
٥.	Check the argument is valid or not?
	If today is Tuesday, then I have a test in computer science or a test in Economics.
	If my Economic professor is sick, then I will not have a test in economics. Today is
	Tuesday & my economics professor is sick, therefore, I have a test in computer
	science.