$$(P \land (P \rightarrow q)) \rightarrow q$$

$$\equiv (P \wedge (7PVq)) \rightarrow 9$$

Definition of implication

$$\equiv (P^{1}7P) \vee (P^{1}9) \rightarrow 9$$
 Distributive law

$$\equiv \left(F \lor \left(P \left(q \right) \right) \to q \right)$$

$$\equiv (p \land q) \rightarrow q$$

$$=$$
 $\neg (p \land q) \lor q$

Definition of implication

$$=$$
 $7PV79V9$

De Morgan's Law

Tautology

So, it is tautology

you are happy and watch movies, (then) your parents ask you to study,

so, we obtain

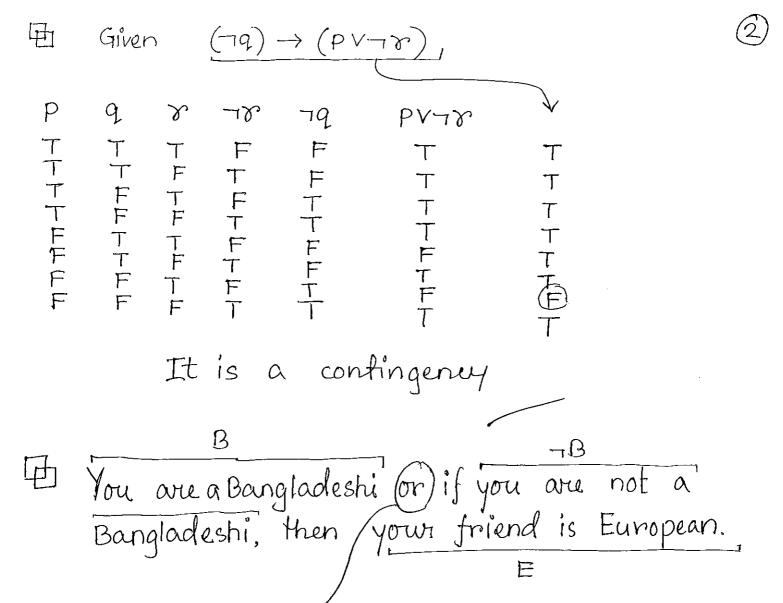
$$(P \land q) \rightarrow \emptyset$$

You will find a good job in Pathao (when) you learn CSE173,

So, we obtain

$$p \rightarrow q$$

This is another torm of conditional



 $B \vee (\neg B \rightarrow E)$