Convert the following Regular Expression to NFA. After converting the NFA. convert it into a DFA (preferably powerset construction method or any method but you must show your work)

Regex: a*b(a|b)ab*

Ostart-1 > E closer() =
$$d[2/4]$$
 > A

move (A/0) > (3) > E closer(3) = $d[2/3]$ y > P

move (A/b) > (2) > E doser(5) = $d[2/3]$ y > P

- 2) move (B,0) > 233 > Edosor (3) > B move (B16) > (5) -> Ecloser 2(5) > C
- (3) $m(c_10) \rightarrow (8) \rightarrow (8) (8) \rightarrow (8) (9)$ $m(c/b) \Rightarrow (9/10) \Rightarrow E$
 - $m(\overline{D},\overline{b}) \gg \overline{Q} \Rightarrow C(\overline{Q}) \rightarrow T$ $(1) \rightarrow (1) \rightarrow (1) \rightarrow F$



