Task 1 :- picking bag

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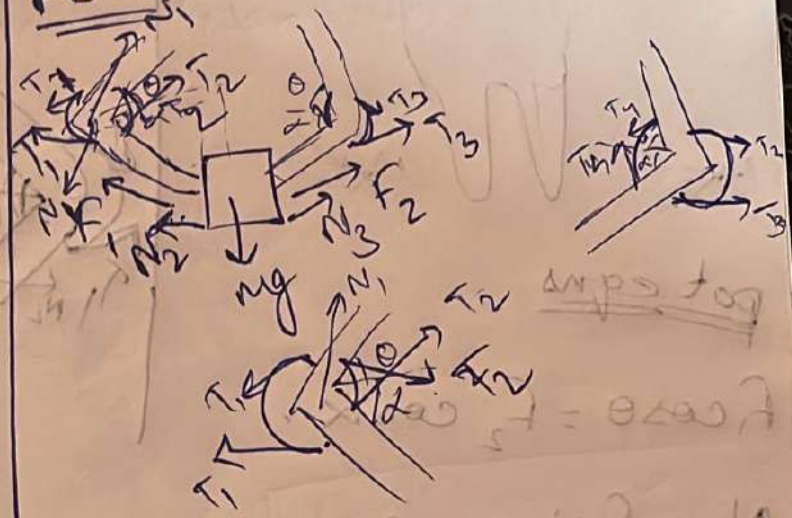
BM20BTECH11015

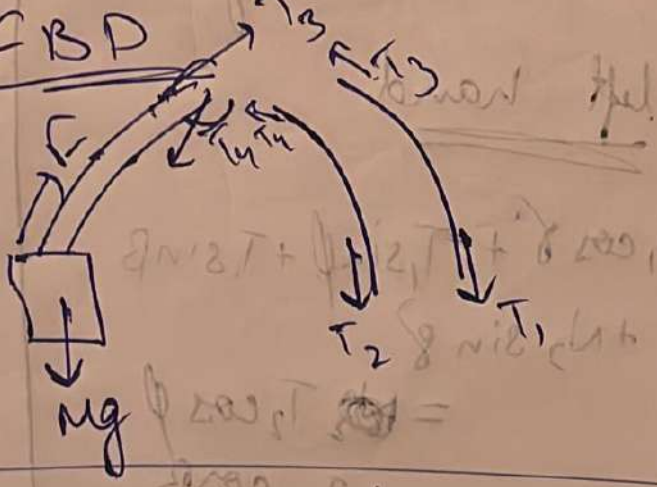
pose 1 :- Lifting the bag by bending forward.

FBD



pose 2

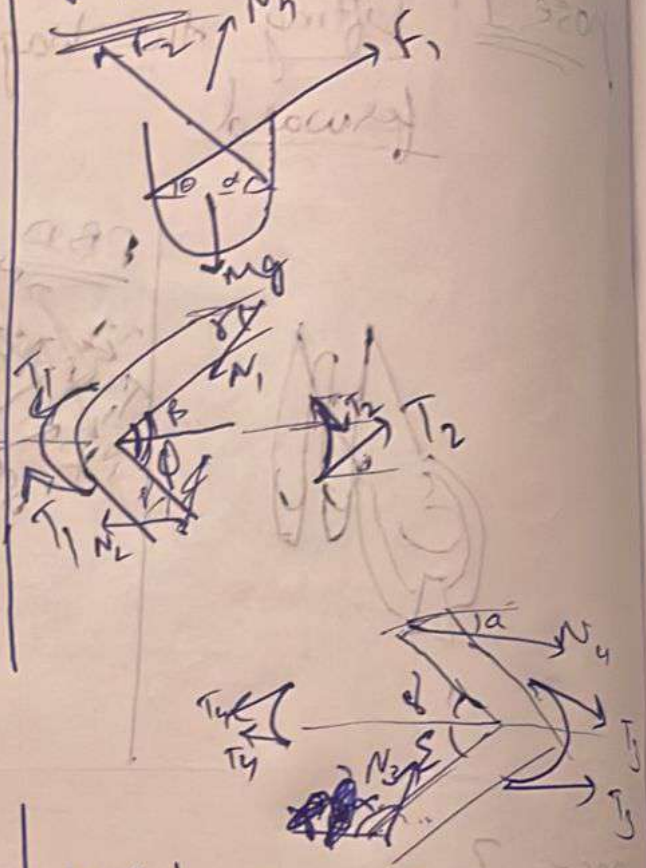
FBD



Task 2 : Carrying a pot

Pose 1 : head

FBD



pot eqns

$f_1 \cos\theta = f_2 \cos\alpha$

$N_h + f_1 \sin\theta + f_2 \sin\alpha = mg$

Left hand

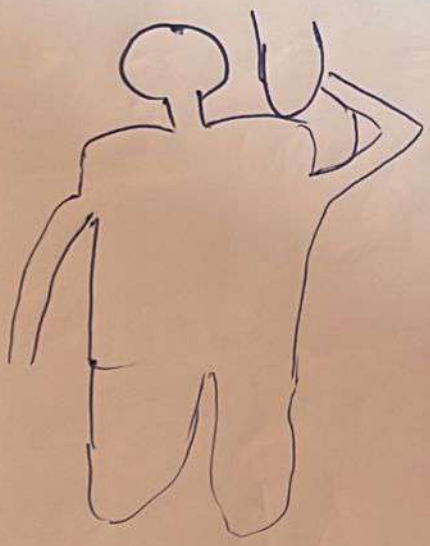
$N_1 \cos\gamma + T_1 \sin\phi + T_1 \sin\beta + N_2 \sin\delta = T_2 \cos\phi + T_2 \cos\beta$

$N_1 \sin\gamma + T_1 \cos\phi + T_2 \sin\phi = N_2 \cos\delta + T_1 \sin\beta + T_2 \cos\phi$

Right hand

$N_4 \sin\alpha + T_3 \cos\Sigma = T_4 \cos\delta$

pose 2 :-



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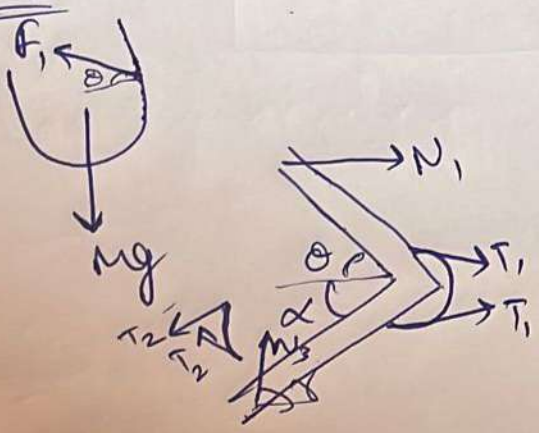
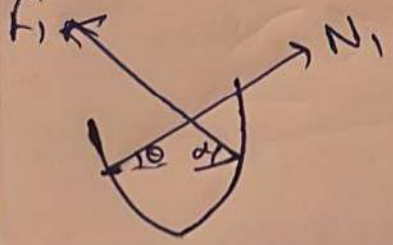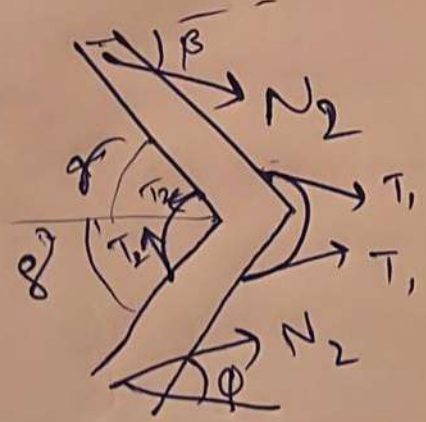
pose 3