Aim - To analyze goit putteren of normal walking vering force plotform.

Apparatus Required - 1) Multiarial Fonce plasform (Kietlen) Riowane softwenc.

Theony -

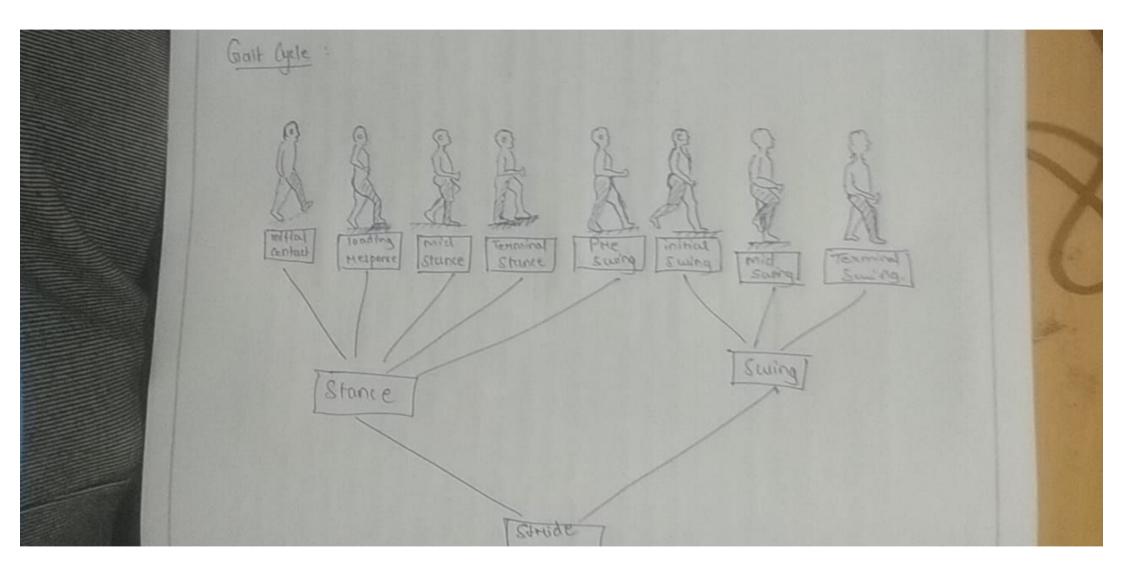
Human gait Hefers to locamotion achieved throught the movement of human limbs. Human goit is defined as pipedal, biphosic forward propulsion of center of grawity of the human

There are genden difference in burnon gait patterns: females fand to walk outh smaller steps width and mone pelvic movement Human goil refert to the various witys in which a human

Graft analysis generally takes genden into consideration. The gait cycle begins when one foot contacts the ground.

each eycle begins at Initial contact with a stance phase.
and princeeds through a swing phase until the cycle.
ends with the links next initial centure. and ends

stance phase of gait is obvirted into faut periods shoulding these phase is divided into three periods initial samp, into three periods initial samp, intol our ing and defined by opening events. And and ording of each pening



Stance Phase:

1.) Heel Strike - St begins with touching the ground.

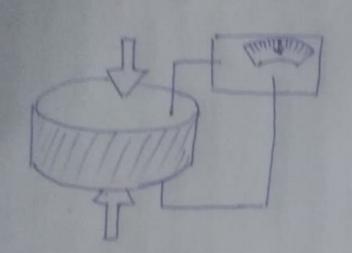
2) Loading Heyorce - begins with initial contrast, the leasure the feet centracts the ground.

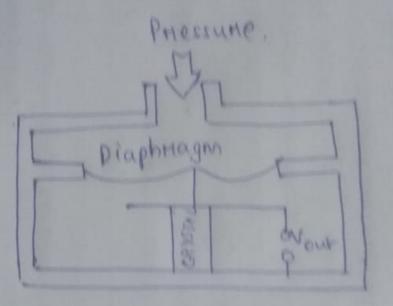
3) Midstance - It is the phase of goil whethe weight bearing one this lient supports the entire bedy weight with the other link makes contast entire from heel rice until the other link is transferred to the other trans.

the grand reaction forces generated by a bady standing of an anoung achoes them.

of fonce transducers which measures the force exerted The Multiarial force platform is a metal plate consisting

the piezoeledille offer to occelenation fempenshine , stroin, of four by conventing Mureducen Cpiezaelecteste for press or equeces . Riezartecente enchroitats and thems the fonce platform is having fonce and movesto them the section of it is a device that uses 50 it. Moderate clearly change from applied mechanical duces. meaning charges in priceinte





(Piezoelectric pressure senson

RECED URF

- of the experiment in ander to neutralize any kind of
- a) Make sume that the force playform is not reading
- A) Now a page will pop-up containing respective icen trolban.

 5) Fhom the icon footbar select acquire thial and measure
 the body weight of the subject so that the force applied
 auring gate can be computed with proper onliberation. After this initialize the Biomane softmane by doubte clicking on the Biomane soft were icon on the desktop desktop.
- T options set the time dunation occurrenting to the experiment to be
- Den Service dimitarily standardize the compling frequency according
- Next strat the priocess by clicking the street poston on
- Heading offset boltage under a filename with any
 12) Save the gait activities under a filename with any
- extension dot. Now study the soved file for ground recuelion force

RESULT : The characteristics graph was obtaine can also be computed by entering connect instant velocity of velocity of velocity and displacement. 10 and