## Angle of Repose.

Angle of repose is defined as the angle of the inclined plane with horizontal such that a body placed on it is just begins to slide.
By definition $\alpha$ is called the angle of repose.
In limiting condition $F=m g \sin \alpha$
and $\quad R=m g \cos \alpha$
So $\quad \frac{F}{R}=\tan \alpha$

$\therefore \quad \frac{F}{R}=\mu=\tan \theta=\tan \alpha \quad$ [As we know $\frac{F}{R}=\mu=\tan \theta$ ]
Thus the coefficient of limiting friction is equal to the tangent of angle of repose.
As well as $\alpha=\theta$ i.e. angle of repose $=$ angle of friction.

