m1=float(input("Enter the first mass "))

m2=float(input("Enter the second mass "))

r=float(input("Enter the distance between the centres of the masses "))

G=6.673\*(10\*\*-11)

f=(G\*m1\*m2)/(r\*\*2)

print("Hence the gravitational force is: ",round(f,2),"N")

begin{aligned}

F\_{\text {mt }} &=\sqrt{F^{2}+F^{2}+2(F)(F) \cos 60^{\circ}}

&=\sqrt{3} F

\end{aligned}