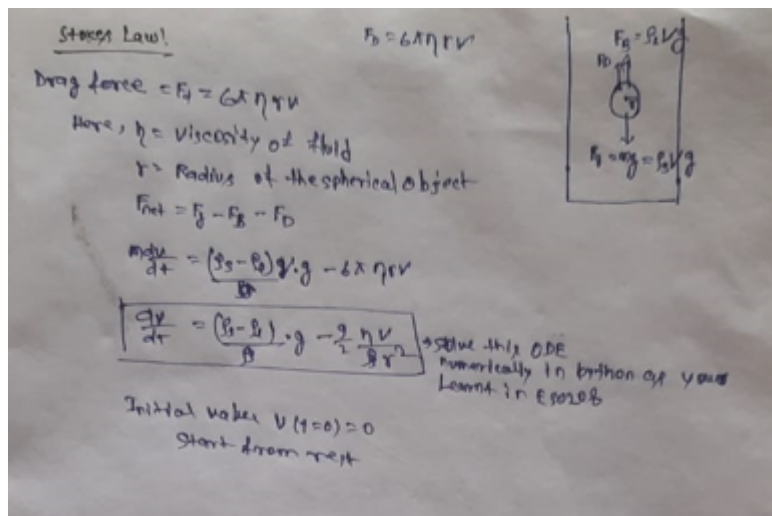


Assignment 1

NAME :- RAVI SHANKAR

ROLL NO :- 200778

Topic :- Stokes Law



Code in Python

```
tole=10**-2
error=100
del_t=0.01
g=9.98
v=0
n=float(input("enter the value of viscosity"))
r=float(input("enter the value of radius"))
ps=float(input("enter the value of density of substance"))
pl=float(input("enter the value of density of liquid"))
while (error > tole):
    a=((ps-pl)*g/ps)-((9/2)*(n*v/ps*r))
    new_v=v+a*del_t
    error=(new_v-v)/new_v
    v=new_v
print("Terminal Velocity =:", (2*r*r*g*(ps-pl))/(9*n))
```