## ASSIGNMENT-1 18K41A0231

Talk == poto ships

-tind the global minimum point and value for the

- Do calculations for 2 9 terations.

601

5tq1: x=2. epochs=2, n=0.1, 9tr=1

Stop 2: df = 4x3+6x

 $\Rightarrow$  4(2)<sup>3</sup>+6(2) = 44

 $\frac{\text{step 3!}}{\text{dx}} = -n \frac{\text{df}}{\text{dx}}.$ 

Stup 4: 2 = 2 + Dx

7.2+60 => 8+(-1.6) -6.4

Sty 5: 9tr = 9tr +1

= 1+1 = 2

Stys: 91 (2>2)

false

Go to sty 2.80 1 - (8.01) 1.0 - 6 11 1- 84 18 pt

5tep2: df = 4x3+6x

 $\Rightarrow 4(-2.4)^3 + 6(-2.4) = -269.69$ 

Step3: Dx = -n df

=-0.1 x -69.69 = 6.9

$$\frac{5494!}{= -2.4 + 6.9} = 4.5$$

$$\frac{5495!}{= 241} = 3$$

$$\frac{5496!}{= 241} = 3$$

$$\frac{5496!}{= 24.5}$$