Weight = 2, 4, 5, 3, 6, 5, 7 Price = 35, 60, 20, 50, 50, 55, 60 Task 1 Compute Stope (M) $M = \frac{x \bar{x} - x \bar{x}}{(\bar{x})^2 - \bar{x}^2}$

 $\overline{X} = (2+4+5+3+6+5+7)/\overline{X} = 4.57$ $\overline{Y} = (35+60+20+50+50+55+60)/\overline{X} = 47.14$ $\overline{X}\overline{Y} = (70+240+100+150+300+275+420)/\overline{X} = 222.14$ $(\overline{X})^{2} = (4.57)^{2} = 20.88$ $\overline{X}^{2} = (4+16+25+9+36+25+49)/\overline{Y} = 23.43$ $\overline{X}\overline{Y} = 4.57 \times 47.14 = 215.43$ 215.43 - 22214 - 6.71

 $M = \frac{215.43 - 22244}{20.88 - 23.43} = \frac{-6.71}{-2.55} = 2.63$

compute interest (C)

$$C = \overline{y} - (m \times \overline{x})$$
= 47.14 - (2.63 × 4.5\times)
= 35.12

when regetable weight is 6, $pred_{-}w6 = M \times 6 + C = 2.63 \times 6 + 35.12$ = 50.9

Task 2 periduals

$$\frac{Task 3}{MSE} = \frac{1}{n} \sum_{i=1}^{n} (y_i - \hat{y}_i)^2$$

= (29.16 + 205.64 + 800 + 32 + 48.58 + 6.84 + 45.02 + 41.60)/2 = (171.13/7 = 167.30

$$MAE = \frac{1}{2} \sum_{i=1}^{n} |y_i - \hat{y}_i|$$

$$= (5.4 + 14.34 + 28.29 + 6.97 + 0.9 + 6.71 + 6.45)/Z$$

$$= 69.06/7 = 9.86$$