Use the below data find the relationship between age (in months) and height (Average height in cm) • age=16:27

• height=c(61.1,61.2,61.8,62.8,63.5,76.1,77,78.1,78.2,78.8,79.7,79.9)

1) check that age and height have the same number of elements

2) Create a scatterplot to determine the relationship between age and height

3) Create a "linear model" to fits the data above

4) Find the equation of the line of best fit

**age=16:27**

**height=c(61.1,61.2,61.8,62.8,63.5,76.1,77,78.1,78.2,78.8,79.7,79.9)**

**data.frame(age,height)**

**l1=length(age) #1**

**l2=length(height)**

**paste("Elements in age is",l1)**

**paste("Elements in height is",l2)**

**if(l1==l2)**

**paste("Same no. of elements")**

**if(l1!=l2)**

**paste("Not same number of elements")**

**plot(age,height,main="Age vs Height") #2**

**z=lm(age~height) #3**

**z**

**summary(z) #4**