**Challenge #5 -**

**The Repeat function Rpt[ time to learn multiplication**

**Example: We know how to draw a square with 13 cm sides**

Keys:















LCD Panel:

Main

Fd13

Rt

FD13

Rt

FD13

Rt

FD13

Rt

**This is bad programing and BORING**!

The pro-bot includes a function called **Repeat** and it uses two keys.



The Rpt key allows you to type less instead of typing out every step as if you are doing addition you can do multiplication.

If I want a square with 13 cm sides. I can program my pro-bot to do it in 4 lines of code instead of 7!

The following keys repeat 4 times (up 13 right turn )









LCD Panel fixes it so it is easier to read

Main

Rpt 4[

Fd10

Rt

]

Program your Pro-Bot

**1. Draw a triangle that has 20 cm sides using the repeat keys.**

Keys:

LCD Panel: (Draw what the LCD screen will look like)

Program your Pro-bot

**2. Draw an octagon with 14 cm sides se the repeat keys**

Keys:(draw the keys you will press)

LCD Panel:

Program your Pro-bot

**3. Draw a rectangle with the short sides of 20cm and long side 30 cm. Use the repeat keys**

Keys:

LCD Panel: (Draw what the LCD screen will look like)

Program your Pro-bot

**4. Draw your own shape on paper**

Program your Pro-bot