

**Problem#1:**

Write a program in Python to read a person's age (integer) and determine if the person is eligible for a discount on a product based on the following condition:

- If the person is less than 18 years old, the output is "Sorry, you are not eligible for a discount."
- If the person is between 18 and 60 years old, the output is "Congratulations! You are eligible for a discount."
- If the person is over 60 years old, the output is "Wow! You are eligible for a senior citizen discount."

**Problem#2:**

Write a Program in Python to read a number from the user and perform the following actions:

- If the number is divisible by 5, print "YES".
- If the number is not divisible by 5 but divisible by 2, print "Wow it's an even number"
- If the number is greater than 10, print "OK"

**Problem#3:**

Write a program that read a number from user and print the corresponding day for the input number. if the user types 1, the output should be Saturday. If the user types 7, the output should be Friday.

**Problem#4:**

Write a Python program to read two integer number X and Y and evaluate the following expression:

$$((5X / Y) + 2X * X)^2$$