PERL - Lab 3

1- **Write a script that open a file and search for how many times a pattern is repeated. (<mark>Bonus:</mark> Ask the user for the file name and for the pattern).**

2- **(<mark>Bonus</mark>) Rewrite the previous script using BEGIN (to instruct the user how the script work and ask him for the file name and pattern) and END block (to print the result) .**

3- **Write a script that open a file and search for "Open Source" and replace it with "OSAD" and save it to a new file.**

4- **Write a script that open a file and search how many dates in the new century exist in the file. [Date format "16/05/2020"]**

5- **Create a package that have the following functions:**
   A- Compare two arrays (<mark>Bonus:</mark> check if the user send two arrays or not. If not print error message)
   B- Compare two hashes
   C- Check if a key exist in a hash

6- **Using PERL 5 OOP create a class called Animal with :**
   A- Constructor take two arguments <u>Name</u> and <u>Age</u>
   B- Getter for both <u>Name</u> and <u>Age</u>
   C- Function called talk that print "I am an animal"

7- **Create a class called Cat that inherit from Animal class and override the talk method to print "I am a cat"**

8- **Rewrite the constructor for Animal class to have default values "wild" for <u>Name</u> and 3 for <u>Age</u>**

9- **Create Animal class using MOOSE (<mark>Bonus:</mark> Make Name attribute required and Age attribute has a default value of 5)**

10- **Print out the attributes and methods for the previous class.**