```
from prettytable import PrettyTable
import random
import string
import sys

animal_dic = {}

print('\nAnimal register program:'
      '\n1: Enter A or a to add new animal.'
      '\n2: Enter D or d to delete a animal'
      '\n3: Enter U or u to update animal.'
      '\n4: Enter L or l to check list of animals. '
      '\n5: Enter E or e to exit the program.')


# ~~~~~~~~~~~~~~~~~~ Functions(): ~~~~~~~~~~~~~~~~~~~
def print_register():
    x = PrettyTable(["ID", "Scientific Name", "Common Name"])
    for animal_data in animal_dic:
        x.add_row([animal_data,
animal_dic[animal_data]["scientific_name"],
                   animal_dic[animal_data]["common_name"]])

    print(x.get_string(title="Animal Register"))


def random_id():
    random_string = ''.join(random.choices(string.ascii_uppercase
                                           + string.digits, k=4))
    return random_string


def add_animal():
    animal_id = random_id()
    scientific_name = input("\nPlease enter the scientific name:
").title()
    common_name = input("\nPlease enter the common name: ").title()
    data = {animal_id: {'scientific_name': scientific_name,
                        'common_name': common_name}}
    if not scientific_name and not common_name:
        print("You must write something!")
    else:
        animal_dic.update(data)


def delete_animal():
    animal_id = input("\nEnter the animal ID you want delete: ").upper()
    try:
        if animal_id in animal_dic:
            choice = input("Delete (y/n)").lower()
            if choice == "yes" or choice == "y":
                del animal_dic[animal_id]
                print(f"{animal_id} register has been deleted!")
        else:
```

```
            print("ID not found. Check list pressing 'L'")
    except Exception:
        print("Something bad happend.")


def update_animal():
    animal_id = input("\nEnter the animal ID you want update: ").upper()
    try:
        # If key in dictionary, if key is equal to ID (animal_id)
        for animal in animal_dic:
            if animal == animal_id:
                choice = input(f"Update register {animal_id}? (y/n):
").lower()
                if choice == "yes" or choice == "y":
                    # Changing names
                    scientific_name = input("Write a new scientific
name: ")
                    animal_dic[animal]['scientific_name'] =
scientific_name
                    common_name = input("Write a new common name: ")
                    animal_dic[animal]['common_name'] = common_name
                    print("Register updated!")
                    print_register()
                else:
                    print("ID not found. Check list pressing 'L'")
    except Exception:
        print("Something bad happend.")


def exit_program():
    sys.exit("Goodbye!")


# ~~~~~~~~~~~~~~~ User's choise ~~~~~~~~~~~~~~~~
while True:
    user_input = input("\nwhat do you want to do? (a, d, u, e, l):
").lower()
    if user_input == "a":
        add_animal()
    elif user_input == "d":
        delete_animal()
    elif user_input == "u":
        update_animal()
    elif user_input == "e":
        exit_program()
    elif user_input == "l":
        print_register()
    elif not user_input:
        print("please, enter something!")
```

```
Animal register program:
1: Enter A or a to add new animal.
2: Enter D or d to delete a animal
3: Enter U or u to update animal.
4: Enter L or l to check list of animals.
5: Enter E or e to exit the program.
```

```
what do you want to do? (a, d, u, e, l): a

Please enter the scientific name: homosapiens

Please enter the common name: humans

what do you want to do? (a, d, u, e, l): a

Please enter the scientific name: felis catus

Please enter the common name: cats

what do you want to do? (a, d, u, e, l): l
+--------------------------------------+
|           Animal Register            |
+------+-----------------+-------------+
|  ID  | Scientific Name | Common Name |
+------+-----------------+-------------+
| 5PDL |   Homosapiens   |    Humans   |
| JFB9 |   Felis Catus   |     Cats    |
+------+-----------------+-------------+

what do you want to do? (a, d, u, e, l): u

Enter the animal ID you want update: JFB9
Update register JFB9? (y/n): y
Write a new scientific name: panthera leo
Write a new common name: lion
Register updated!
+--------------------------------------+
|           Animal Register            |
+------+-----------------+-------------+
|  ID  | Scientific Name | Common Name |
+------+-----------------+-------------+
| 5PDL |   Homosapiens   |    Humans   |
| JFB9 |   panthera leo  |     lion    |
+------+-----------------+-------------+

what do you want to do? (a, d, u, e, l): d

Enter the animal ID you want delete: 5PDL
Delete (y/n)y
5PDL register has been deleted!

what do you want to do? (a, d, u, e, l): e
An exception has occurred, use %tb to see the full traceback.

SystemExit: Goodbye!
```