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Conceptual Programming Project
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Let's say that you are currently running a zoo in Daegu. You want to introduce animals to kindergarten students. There are two types of catalogs available which are flyer (text) and bar chart.
In this world, we can categorize animals into five groups:-

1) Mammal (포유 동물)

2) Bird (새)

3) Aquatic (물의)

4) Reptile (비열한)

5) Insect (공충)

All your animals have three attributes: (a) name, (b) species, and (c) groups. These animals are stored in a text file called "animal.txt". The sample of the text file is shown as below.

```
Lucy Dolphin Aquatic
Rambo Tiger Mammal
Kiwi Crocodile Reptile
Jackie Canary Bird
Kate Owl Bird
Boyie Ant Insect
Killer Shark Aquatic
Patty Dove Bird
Thang Snake Reptile
John Bee Insect
Racheal Seaturtle Aquatic
Happy Ladybird Insect
Shadow Eagle Bird
Poo Octopus Aquatic
Simba Lion Mammal
Yoshua Alligator Reptile
Abby Seahorse Aquatic
```

Create a program to generate both the catalogs for the kindergarten student. This project is free style, where you can design the program based on your own idea and creativity.

평가 사항 (Evaluation Points):

1. 소스코드 조직 (Code organization)

2. 클래스 사용법 (Class Usage)
3. Graphics (design, colors, and etc.)
4. Correct and smooth outputs (no errors)
5. Additional features, such as add, delete, or update animal's record.
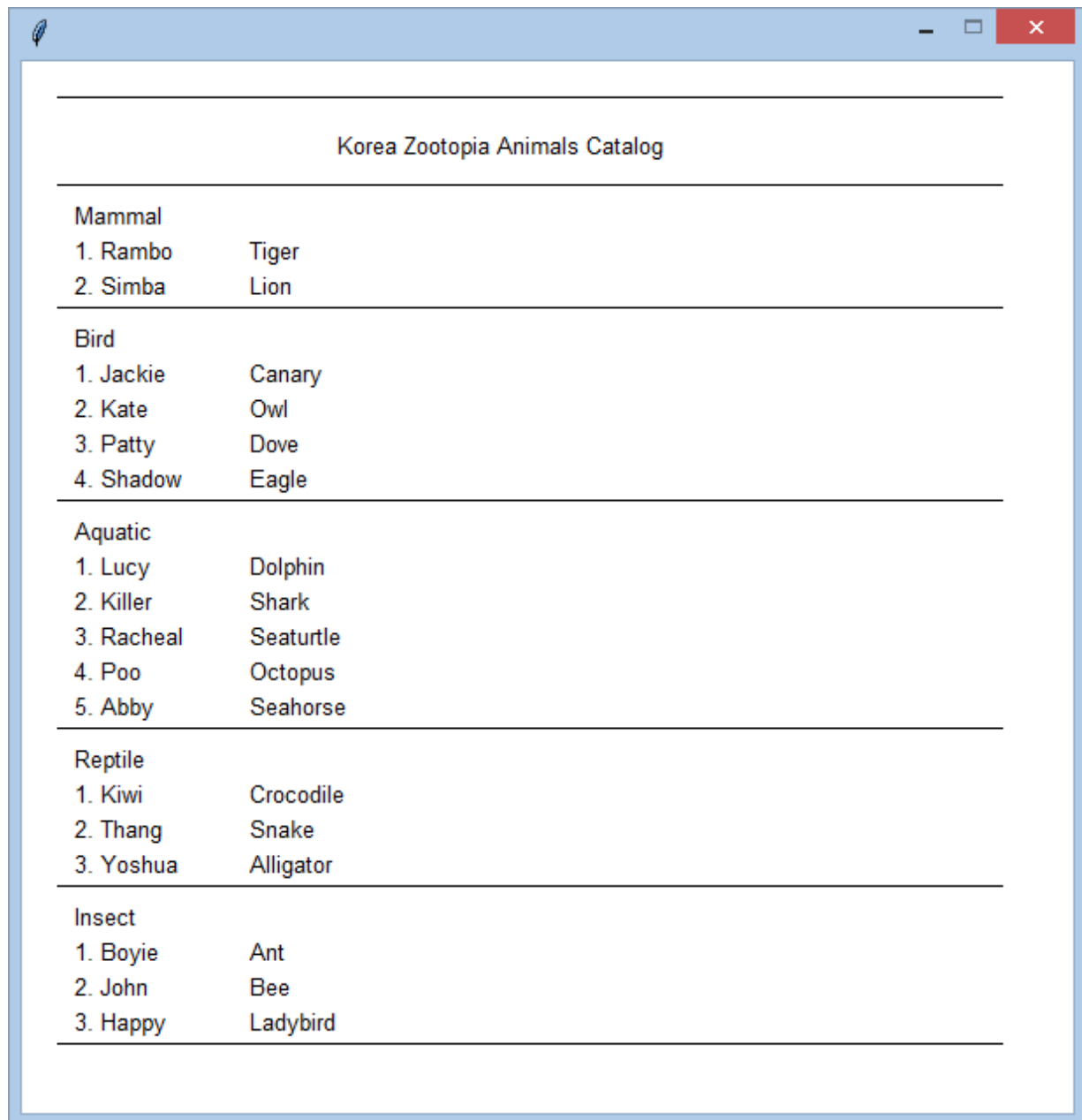
중요 사항(Notice):

Students are allowed to team up with maximum 3 students to finish this project. Doing solo will get extra bonus, but also based on evaluation points mentioned above.

Sample Output:

```
**************************************************
                  Korea Zootopia
----------------------------------------------------
 1. Show Zoo Animals Catalog.
 2. Display Zoo Animals Charts.
 3. Generate Zoo Animals Text Files
**************************************************
Enter your choice: 1
```
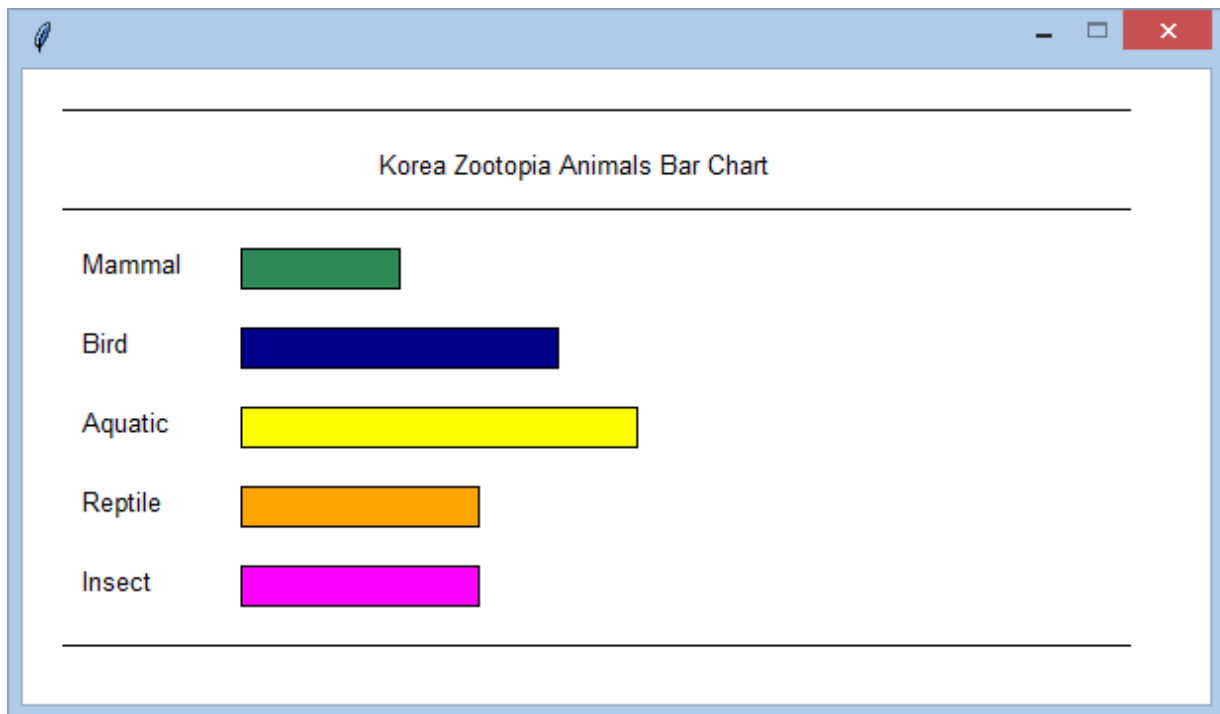
Choice 1:
This generates the catalog that categorized animals into their respective groups, showing their name and also their species.

Korea Zootopia Animals Catalog

Mammal
1. Rambo   Tiger
2. Simba   Lion

Bird
1. Jackie   Canary
2. Kate   Owl
3. Patty   Dove
4. Shadow   Eagle

Aquatic
1. Lucy   Dolphin
2. Killer   Shark
3. Racheal   Seaturtle
4. Poo   Octopus
5. Abby   Seahorse

Reptile
1. Kiwi   Crocodile
2. Thang   Snake
3. Yoshua   Alligator

Insect
1. Boyie   Ant
2. John   Bee
3. Happy   Ladybird

This generates bar chart to illustrate the number of animals in each group in the zoo.

Korea Zootopia Animals Bar Chart

Mammal

Bird

Aquatic

Reptile

Insect

<u>Choice 3:</u>
** This selection generates five different text files for each group of animals.

```
**************************************************
                  Korea Zootopia
--------------------------------------------------
 1. Show Zoo Animals Catalog.
 2. Display Zoo Animals Charts.
 3. Generate Zoo Animals Text Files
**************************************************
Enter your choice: 3
Catalog generated.
```

📄 animal.txt
📄 aquatic.txt
📄 birds.txt
📄 insect.txt
📄 mammals.txt
📄 reptile.txt

📄 birds.txt ⊠
1 Jackie Canary
2 Kate Owl
3 Patty Dove
4 Shadow Eagle
5

📄 aquatic.txt ⊠
1 Lucy Dolphin
2 Killer Shark
3 Racheal Seaturtle
4 Poo Octopus
5 Abby Seahorse
6

📄 animal.txt ⊠
1 Lucy Dolphin Aquatic
2 Rambo Tiger Mammal
3 Kiwi Crocodile Reptile
4 Jackie Canary Bird
5 Kate Owl Bird
6 Boyie Ant Insect
7 Killer Shark Aquatic
8 Patty Dove Bird
9 Thang Snake Reptile
10 John Bee Insect
11 Racheal Seaturtle Aquatic
12 Happy Ladybird Insect
13 Shadow Eagle Bird
14 Poo Octopus Aquatic
15 Simba Lion Mammal
16 Yoshua Alligator Reptile
17 Abby Seahorse Aquatic
18

📄 mammals.txt ⊠
1 Rambo Tiger
2 Simba Lion
3

📄 reptile.txt ⊠
1 Kiwi Crocodile
2 Thang Snake
3 Yoshua Alligator
4

📄 insect.txt ⊠
1 Boyie Ant
2 John Bee
3 Happy Ladybird
4