

## SAMPLE OUTPUT

Menu for the user to choose options:

```
MENU :
1.Print details of endangered animals in a specific region
2.Print a list of endangered animals of a specific species across regions
3.Print the region with maximum no. of endangered animals
4.Delete the details of an endangered animal from a specific Region
5.Print a region wise list of all endangered animals of a particular species whose alive count is < 10000
6.Create & print a priority queue of animals based on their alive count. Give the animal with minimum alive count the max priority
7.Print a list of threats and animals facing them across regions
8.Exit from program

Please enter an option from the menu (1-8) : _
```

Option 1: Print details of Endangered Animals in a specific region

User Input: **Region : Australia**

```
Please enter an option from the menu (1-8) : 1
Enter the region of your interest in lower case(north america,south america,europe,asia,africa,australia,artic and antartic) : australia
Information on endangered animals in australia

```

Aninal	Type	Alive count	Habitat	Threat	Avg. life span
chatham island black robin	bird	250	scrub forest remnants	habitat destruction	6
cloven-feathered dove	bird	140000	northeast australia	hunting	9
kakapo	bird	90	lowland podocarp forests	predation	60
koala	mammal	10000	eucalyptus forest	habitat destruction	17
short-necked turtle	reptile	20	swan coastal plain	habitat destruction	40
tasmanian forester kangaroo	mammal	26000	grasslands and open woodlands	hunting	7

Option 2: Print a list of endangered animals of a specific species across regions

User Input: **species : bird**

```
Please enter an option from the menu (1-8) : 2
Enter the species of your interest in lower case(mammal,bird,reptile,amphibian) : bird
List of endangered birds across regions :
burrowing owl
cactus ferruginous pygmy-owl
cerulean warbler
chatham island black robin
cloven-feathered dove
galapagos penguin
hummingbird
kakapo
mexican spotted owl
northern spotted owl
palawan peacock pheasant
peregrine falcon
red-cockaded woodpecker
snowy owl_
```

Option 3: Print the region with maximum number of endangered animals

```
Please enter an option from the menu <1-8> : 3
Region with maximum number of endangered animals is north america_
```

Option 4: Delete the details of an endangered animal from a specific region

Using option 1, list the animals in a specific region and choose one of the animal names for deletion.

```
Please enter an option from the menu <1-8> : 1
Enter the region of your interest in lower case(north america,south america,europe,asia,africa,australia,artic and antartic) : asia
Information on endangered animals in asia
```

Animal	Type	Alive count	Habitat	Threat	Avg. life span
amur leopard	mammal	40	northeastern china	habitat destruction	13
asian elephant	mammal	37500	southeast asia	habitat destruction	70
asian lion	mammal	200	northwestern india	habitat destruction	13
ceylon mugger crocodile	reptile	200	freshwater	hunting for hide	70
chiru	mammal	75000	northwest tibet	poaching	8
clouded leopard	mammal	10000	southeast asia	habitat destruction	17
giant panda	mammal	2000	bamboo forest	habitat destruction	25
hoolock gibbon	mammal	170000	tropical evergreen rainforest	habitat destruction	50
malabar large spotted civet	mammal	250	evergreen rain forest	habitat destruction	10
orangutan	mammal	22000	dense rain forest	habitat destruction	37
palawan peacock pheasant	bird	10000	coastal lowland	habitat destruction	15
sea otter	mammal	85000	shallow coastal waters	oil spills	15

In this example, say sea otter from asia is chosen for deletion

```
Please enter an option from the menu <1-8> : 4
Enter the region of your interest in lower case(north america,south america,europe,asia,africa,australia,artic and antartic) asia
Enter the animal name whose information needs to be deleted in lower case: sea otter
Successfully deleted information on sea otter in the asia region.
```

Verify if the animal has been deleted using option 1

```
Enter the region of your interest in lower case(north america,south america,europe,asia,africa,australia,artic and antartic) : asia
Information on endangered animals in asia
```

Animal	Type	Alive count	Habitat	Threat	Avg. life span
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malabar large spotted civet	mammal	250	evergreen rain forest	habitat destruction	10
orangutan	mammal	22000	dense rain forest	habitat destruction	37
palawan peacock pheasant	bird	10000	coastal lowland	habitat destruction	15

(sea otter does not get listed )

Option 5: Print a region wise list of all endangered animals of a particular species whose alive count is < 10000

User option: **species : bird**

```
Please enter an option from the menu <1-8> : 5
Enter the species of your interest in lower case<mammal,bird,reptile,amphibian> : bird
Region                Count of birds with alive count < 10000
africa                0
arctic and antarctic  0
asia                  0
australia              2
europe                 1
north america          5
south america          1
```

Option 6: Create & print a priority queue of animals based on their alive count. Give the animal with minimum alive count the max priority.

Here is a small sample of the big complete list that is generated.

```

200      ceylon mugger crocodile
200      asian lion
200      mexican wolf
207      red wolf
250      malabar large spotted civet
250      chatham island black robin
250      monito gecko
274      barton springs salamander
300      cook inlet beluga whale
350      north atlantic right whale
350      north atlantic right whale
500      mediterranean monk seal
650      mountain gorilla
800      orinoco crocodile
800      golden lion tamarin
1000     lynx
1000     black footed ferret
1350     hawaiian monk seal
2000     giant panda
2106     mexican spotted owl
2400     jaguar
2400     black rhinoceros
2500     geometric tortoise
2600     anaconda
2600     northern spotted owl
3000     florida manatee
3300     peregrine falcon
3300     peregrine falcon
3500     african wild dog
3500     giant otter
5000     grevy zebra
6000     kemp ridley sea turtle
6000     humpback whale
6000     snow leopard
6000     humpback whale
6300     tiger
7500     red-cockaded woodpecker
10000    koala
10000    palawan peacock pheasant
10000    clouded leopard
10000    bald uakari
10500    galapagos penguin
10500    cheetah
11000    mountain zebra
12500    leopard

```

Option 7: Print a list of threats and animals facing them across regions

Here is a sample from the complete output.

## Threats

climatic warming

collisions with automobiles, utility lines

conflict with people over livestock losses

contamination

fisheries impact

fishing

fur hunting

habitat destruction

habitat destruction by fires

human encroachment

human-caused mortality

hunted as threat to livestock

hunting

hunting for fur

hunting for hide

## Animals

galapagos penguin

polar bear

snowy owl

gray wolf

barton springs salamander

kemp ridley sea turtle

mediterranean monk seal

bobcat

african elephant

african lion

african wild dog

cheetah

chimpanzee

geometric tortoise

grevy zebra

mountain gorilla

mountain zebra

amur leopard

asian elephant

asian lion

clouded leopard

giant panda

hoolock gibbon

malabar large spotted civet

orangutan

palawan peacock pheasant

chatham island black robin

koala

short-necked turtle

tiger

black bear

black footed ferret

black-tailed prairie dog

burrowing owl

cactus ferruginous pygmy-owl

cerulean warbler

florida manatee

florida panther

gray bat

hummingbird

lynx

mexican wolf

mississippi gopher frog

northern spotted owl

ocelot

red wolf

red-cockaded woodpecker

swift fox

bald uakari

jaguar

lemur

hawaiian monk seal

grizzly bear

mountain lion

humpback whale

walrus

cloven-feathered dove

tasmanian forester kangaroo

europaean mink

american bison

cook inlet beluga whale

galapagos tortoise

giant otter

golden lion tamarin

snow leopard

ceylon mugger crocodile

anaconda