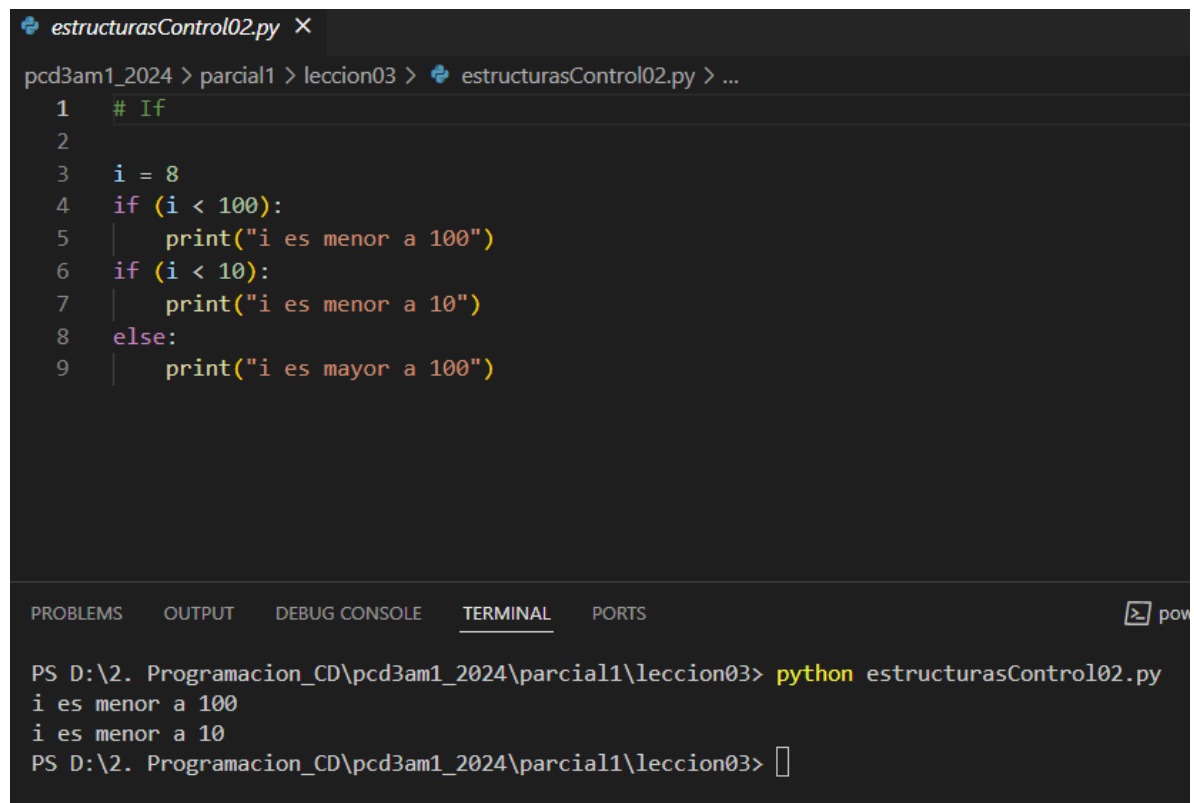


estructurasControl01.py

```
estructurasControl01.py X
pcd3am1_2024 > parcial1 > leccion03 > estructurasControl01.py > ...
1  # If
2
3  i = 8
4  if (i == 8):
5      if (i < 100):
6          print("i es menor a 100")
7      elif (i < 10):
8          print("i es menor a 10")
9      else:
10         print("i es mayor a 100")

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  [icon] pow
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> python estructurasControl01.py
i es menor a 100
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> 
```

estructurasControl02.py



The image shows a code editor window with a file named `estructurasControl02.py`. The code is a Python script that uses nested `if` statements to check the value of a variable `i`. The code is as follows:

```
1  # If
2
3  i = 8
4  if (i < 100):
5      print("i es menor a 100")
6  if (i < 10):
7      print("i es menor a 10")
8  else:
9      print("i es mayor a 100")
```

Below the code editor is a terminal window. The terminal shows the command `python estructurasControl02.py` being executed, which results in the output:

```
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> python estructurasControl02.py
i es menor a 100
i es menor a 10
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03>
```

estructurasControl03.py

```
estructurasControl03.py X
pcd3am1_2024 > parcial1 > leccion03 > estructurasControl03.py > ...

1  # If
2
3  def comparar(i):
4      if (i > 0):
5          return 'Positivo'
6      elif (i < 0):
7          return 'Negativo'
8      else:
9          return 'Cero'
10
11  lambda_comparar1 = lambda i: {i>0: 'Positivo', i<0: 'Negativo'}.get(True, "Cero")
12
13  lambda_comparar2 = lambda i: 'Positivo' if i > 0 else ('Negativo' if i<0 else 'Cero')
14
15
16  for i in range(-2,3,1):
17      print(f'Def: {i} es {comparar(i)}')
18
19
20  for i in range(-2,3,1):
21      print(f'Lambda1: {i} es {lambda_comparar1(i)}')
22
23  for i in range(-2,3,1):
24      print(f'Lambda2: {i} es {lambda_comparar2(i)}')
25
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Def: -2 es Negativo
Def: -1 es Negativo
Def: 0 es Cero
Def: 1 es Positivo
Def: 2 es Positivo
Lambda1: -2 es Negativo
Lambda1: -1 es Negativo
Lambda1: 0 es Cero
Lambda1: 1 es Positivo
Lambda1: 2 es Positivo
Lambda1: 0 es Cero
Lambda1: 0 es Cero
Lambda1: 0 es Cero
Lambda1: 1 es Positivo
Lambda1: 2 es Positivo
Lambda2: -2 es Negativo
Lambda2: -1 es Negativo
Lambda2: 0 es Cero
Lambda2: 1 es Positivo
Lambda2: 2 es Positivo
```

estructurasControl04.py



The image shows a code editor window with a dark theme. The top part displays a Python script named `estructurasControl04.py`. The script contains five lines of code: a comment, a string assignment, and a loop that prints each character of the string. The bottom part of the window shows a terminal output where the string "Hola Mundo!" is printed character by character on separate lines. The terminal prompt indicates the current directory is `D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03`.

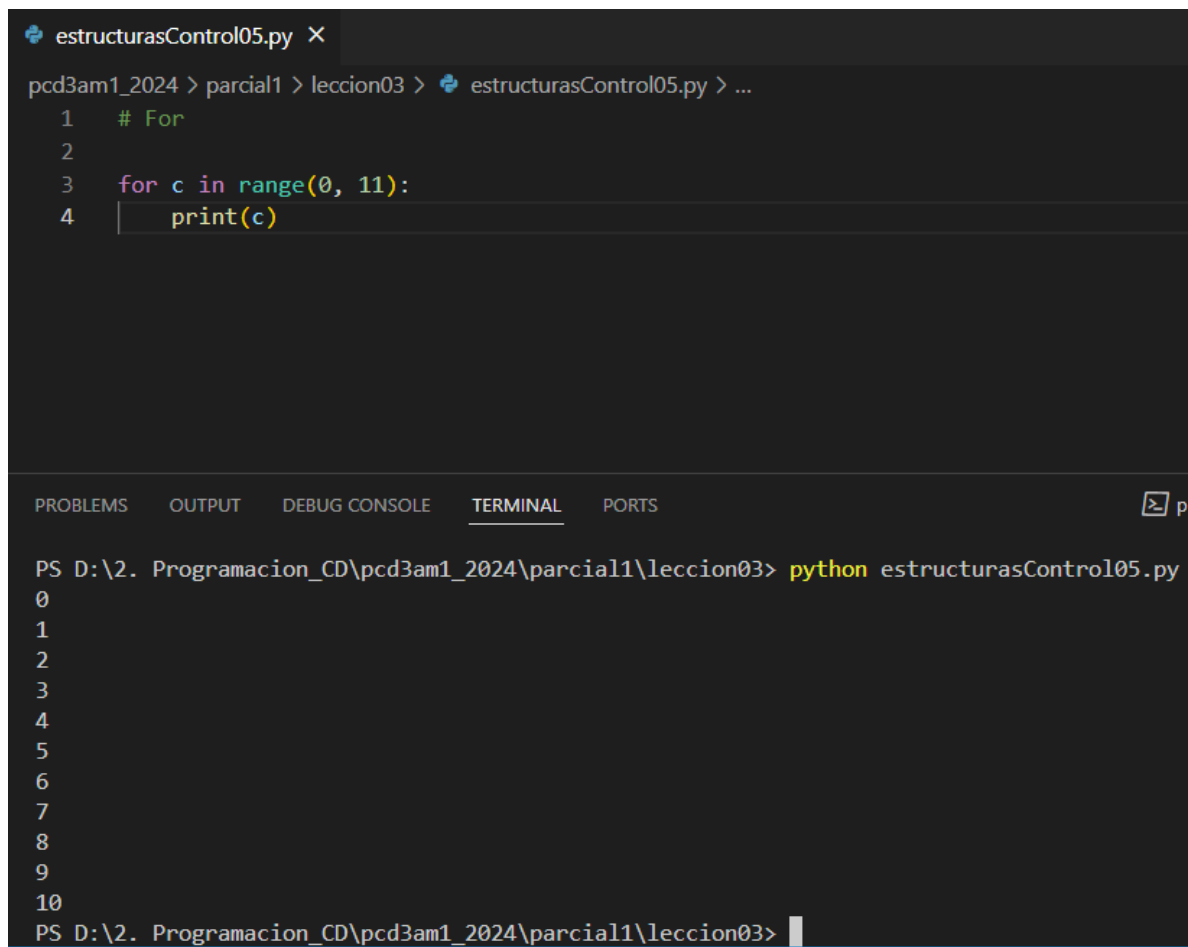
```
estructurasControl04.py X
pcd3am1_2024 > parcial1 > leccion03 > estructurasControl04.py > ...
1  # For
2
3  cadena = "Hola Mundo!"
4  for c in cadena:
5      print(c)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

H
o
l
a

M
u
n
d
o
!
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03>

estructurasControl05.py



The image shows a code editor window with a file named `estructurasControl05.py`. The code is a simple for loop that prints numbers from 0 to 10. Below the code editor is a terminal window showing the command `python estructurasControl05.py` being executed, which results in the numbers 0 through 10 being printed on separate lines.

```
estructurasControl05.py X
pcd3am1_2024 > parcial1 > leccion03 > estructurasControl05.py > ...
1  # For
2
3  for c in range(0, 11):
4      print(c)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

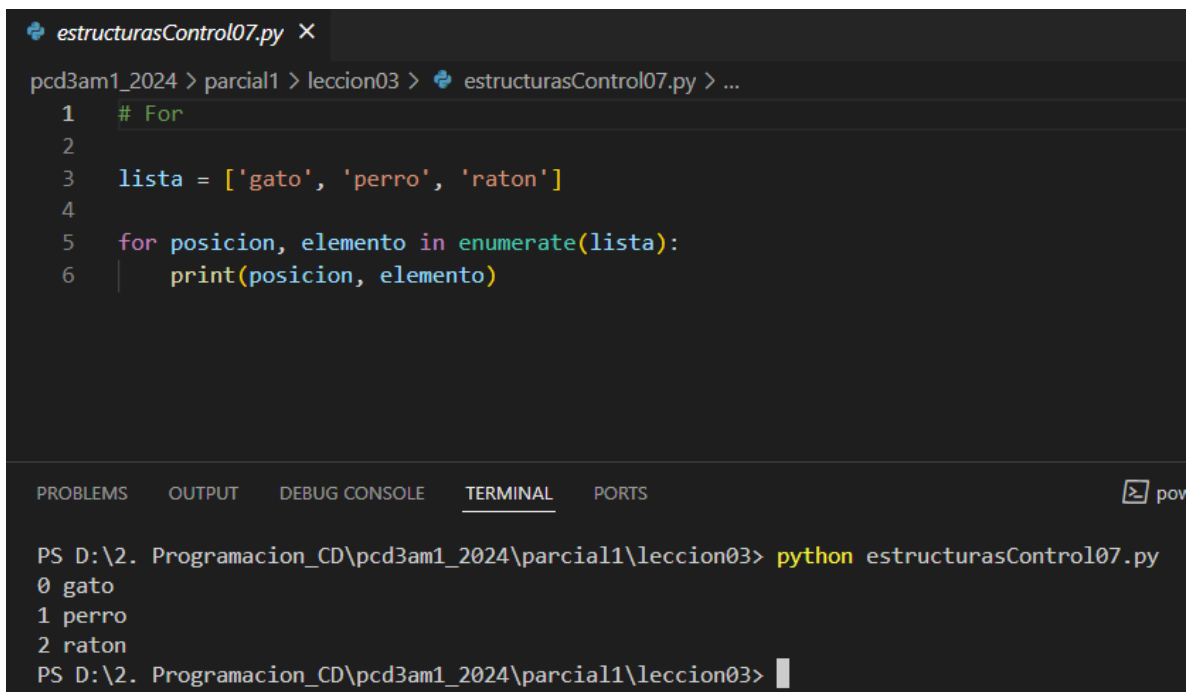
```
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> python estructurasControl05.py
0
1
2
3
4
5
6
7
8
9
10
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03>
```

estructurasControl06.py

```
estructurasControl06.py X
pcd3am1_2024 > parcial1 > leccion03 > estructurasControl06.py > ...
1  # For
2
3  print('Del 3 al 15 de 3 en 3')
4  for c in range(3, 15, 3):
5      print(c)
6
7
8  print('Del 10 al -5 de 4 en 4')
9  for c in range(10, -6, -4):
10     print(c)
11

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> python estructurasControl06.py
Del 3 al 15 de 3 en 3
3
6
9
12
Del 10 al -5 de 4 en 4
10
6
2
-2
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03>
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03>
```

estructurasControl07.py



The image shows a code editor window with a file named `estructurasControl07.py`. The code is a Python script using a `for` loop with `enumerate` to iterate over a list of animals. Below the code editor is a terminal window showing the command to run the script and its output.

```
1  # For
2
3  lista = ['gato', 'perro', 'raton']
4
5  for posicion, elemento in enumerate(lista):
6      print(posicion, elemento)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

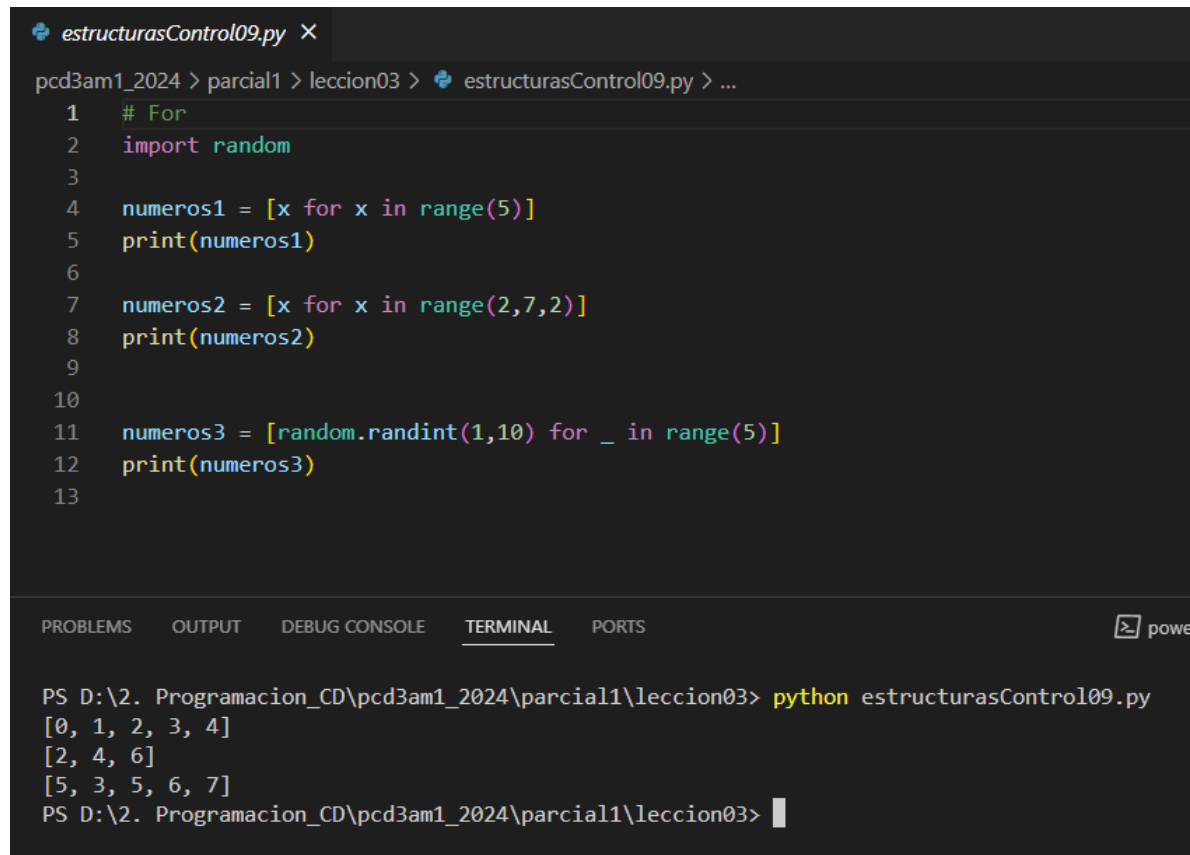
```
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> python estructurasControl07.py
0 gato
1 perro
2 raton
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03>
```

estructurasControl08.py

```
estructurasControl08.py X
pcd3am1_2024 > parcial1 > leccion03 > estructurasControl08.py > ...
1  # For anidado
2
3  for i in range(1, 4):
4      for j in range(1, 4):
5          for k in range(1, 4):
6              for l in range(1, 4):
7                  print(f'i={i} j={j} k={k} l={l}')
8
```

```
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03>
i=1 j=1 k=1 l=1
i=1 j=1 k=1 l=2
i=1 j=1 k=1 l=3
i=1 j=1 k=2 l=1
i=1 j=1 k=2 l=2
i=1 j=1 k=2 l=3
i=1 j=1 k=3 l=1
i=1 j=1 k=3 l=2
i=1 j=1 k=3 l=3
i=1 j=2 k=1 l=1
i=1 j=2 k=1 l=2
i=1 j=2 k=1 l=3
i=1 j=2 k=2 l=1
i=1 j=2 k=2 l=2
i=1 j=2 k=2 l=3
i=1 j=2 k=3 l=1
i=1 j=2 k=3 l=2
i=1 j=2 k=3 l=3
i=1 j=3 k=1 l=1
i=1 j=3 k=1 l=2
i=1 j=3 k=1 l=3
i=1 j=3 k=2 l=1
i=1 j=3 k=2 l=2
i=1 j=3 k=2 l=3
i=1 j=3 k=3 l=1
i=1 j=3 k=3 l=2
i=1 j=3 k=3 l=3
i=2 j=1 k=1 l=1
i=2 j=1 k=1 l=2
i=2 j=1 k=1 l=3
i=2 j=1 k=2 l=1
i=2 j=3 k=3 l=1
i=2 j=3 k=3 l=2
i=2 j=3 k=3 l=3
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03>
```


estructurasControl09.py



The image shows a code editor window with a file named `estructurasControl09.py`. The code is written in Python and uses list comprehensions to generate three lists of numbers. The first list, `numeros1`, contains the first five integers from 0 to 4. The second list, `numeros2`, contains three even integers from 2 to 6. The third list, `numeros3`, contains five random integers between 1 and 10. The code is as follows:

```
1  # For
2  import random
3
4  numeros1 = [x for x in range(5)]
5  print(numeros1)
6
7  numeros2 = [x for x in range(2,7,2)]
8  print(numeros2)
9
10
11 numeros3 = [random.randint(1,10) for _ in range(5)]
12 print(numeros3)
13
```

Below the code editor is a terminal window. It shows the command `python estructurasControl09.py` being executed, followed by the output of the program:

```
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> python estructurasControl09.py
[0, 1, 2, 3, 4]
[2, 4, 6]
[5, 3, 5, 6, 7]
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03>
```

estructurasControl10.py

```
estructurasControl10.py X
pcd3am1_2024 > parcial1 > leccion03 > estructurasControl10.py > ...
1  # For
2
3  animales = ['Leon', 'Zebra', 'Murcielago', 'Humano']
4  comidas = ['Carnivoro', 'Herbivoro', 'Insectivoro', 'Omnivoro']
5
6  for animal, comida in zip(animales, comidas):
7      print(f'{animal} es {comida}')
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> python estructurasControl10.py
Leon es Carnivoro
Zebra es Herbivoro
Murcielago es Insectivoro
Humano es Omnivoro
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> 
```

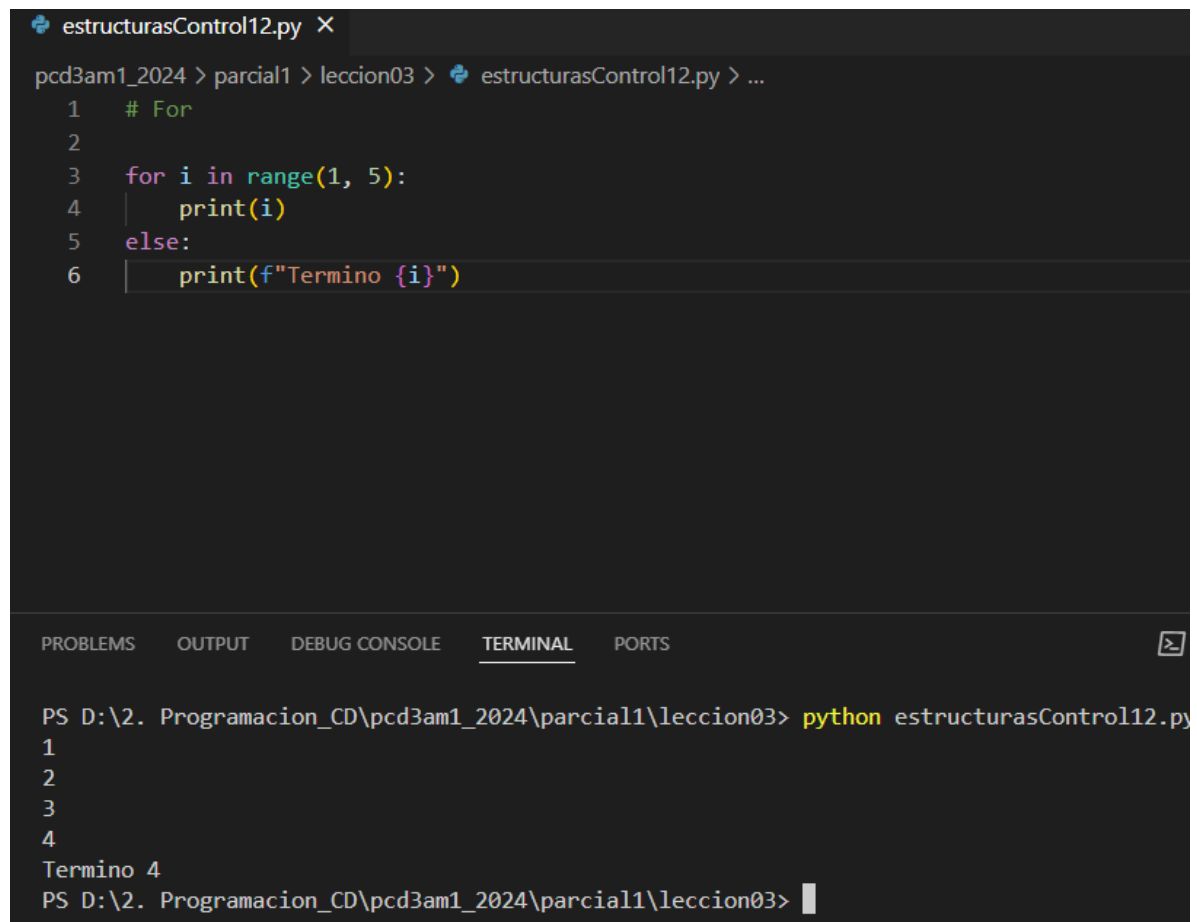
estructurasControl11.py

```
estructurasControl11.py X
pcd3am1_2024 > parcial1 > leccion03 > estructurasControl11.py > ...
1  # For
2
3  cadena = 'Murcielago'
4
5  for c in cadena:
6      if c == 'l':
7          print('g', end='')
8      elif c == 'g':
9          print('l', end='')
10     else:
11         print(c, end='')
12
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> python est
Murciegalo
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> █
```

estructurasControl12.py



The image shows a code editor window with a file named `estructurasControl12.py`. The code is a Python script with the following lines:

```
1  # For
2
3  for i in range(1, 5):
4      print(i)
5  else:
6      print(f"Termino {i}")
```

Below the code editor is a terminal window. The terminal shows the command to run the script and its output:

```
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03> python estructurasControl12.py
1
2
3
4
Termino 4
PS D:\2. Programacion_CD\pcd3am1_2024\parcial1\leccion03>
```