Practice:

Write the output for following code blocks.

```
i = 1                    (1)
while i <= 5:
    print(i)
    i += 1
```

```
i = 10                   (2)
while i > 5:
    print(i, end=" ")
    i -= 2
```

```
x = 1                    (3)
while x < 3:
    print("Hello")
    x += 1
```

```
count = 0                (4)
while count < 3:
    print(count)
    count += 1
else:
    print("Done")
```

```
while True:              (5)
    print("Looping")
```

```
i = 1                    (6)
while i < 10:
    if i % 3 == 0:
        break
    print(i, end=" ")
    i += 1
```

```
i = 1                    (7)
while i < 5:
    print(i, end=" ")
    i += 1
else:
    print("Else executed")
```

```
i = 1                    (8)
while i < 6:
    if i == 4:
        i += 1
        continue
    print(i, end=" ")
    i += 1
```

```
i = 1                    (9)
while i <= 3:
    j = 1
    while j <= 2:
        print(f"i={i}, j={j}")
        j += 1
    i += 1
```

```
x = 0                    (10)
while True:
    x += 1
    if x == 5:
        break
    print(x, end=" ")
```

```
i = 0                    (11)
while i < 5:
    print(i, end=" ")
    i = i + 2
else:
    print("\nLoop completed")
```

```
while True:              (12)
    num = int(input("Enter num(0 to stop): "))
    if num == 0:
        break
    print("You entered:", num)
print("Loop ended")
```

```
i = 1                    (13)
while i < 10:
    print(i, end=" ")
    if i % 5 == 0:
        break
    i += 2
```

```
i = 0                    (14)
while i < 5:
    i += 1
    if i == 3:
        continue
    print(i, end=" ")
```

```
i = 1                    (15)
while True:
    if i % 7 == 0:
        break
    print(i, end=" ")
    i += 2
```

```
x = 10                   (16)
while x > 0:
    x -= 3
    print(x, end=" ")
```

```
i = 1                    (17)
while i < 4:
    j = 1
    while j < 3:
        print(f"({i}, {j})", end=" ")
        j += 1
    i += 1
```

```
i = 1                    (18)
while i < 4:
    print(i, end=" ")
    i += 1
else:
    print("End")
```

```
i = 5                    (19)
while i > 0:
    print("*" * i)
    i -= 1
```

```
for i in range(3):       (20)
    print(i, end=" ")
```

```
for i in range(2, 7, 2): (21)
    print(i, end=" ")
```

``
for i in range(5):   (22)
    if i == 3:
        break
    print(i, end=" ")
``
	``
	for i in range(5): (23)
	    if i == 2:
	        continue
	    print(i, end=" ")
	``
		``
		for i in range(5, 0, -1): (24)
		    print(i, end=" ")
		``

``
for i in range(3):   (25)
    for j in range(2):
        print(f"({i}, {j})", end=" ")
``
	``
	for char in "Hi!": (26)
	    print(char, end=" ")
	``
		``
		for i in range(1, 10, 3): (27)
		    print(i, end=" ")
		``

``
                             (28)
for char in "PYTHON"[::2]:
    print(char, end=" ")
``
	``
	for i in range(1, 6): (29)
	    print("*" * i)
	``
		``
		for i in range(5, 0, -1): (30)
		    print("#" * i)
		``

``
s = "PYTHON"   (31)
for i in range(len(s)):
    print(s[i].lower(), end=" ")
``
	``
	for i in range(0, 5, -1): (32)
	    print(i, end=" ")
	``
		``
		for i in range(6): (33)
		    if i % 2 == 0:
		        continue
		    print(i, end=" ")
		``

``
for i in range(10):   (34)
    if i % 3 == 0:
        if i % 2 == 0:
            print(i, end=" ")
``
	``
	for i in range(3, 0, -1): (35)
	    print("X" * i)
	``
		``
		for i in range(1, 10): (36)
		    if i % 2 == 1 and i % 3 == 0:
		        print(i, end=" ")
		``

``
for i in range(1, 10, 3):   (37)
    print(i, end=" ")
    if i % 2 == 0:
        break
``
	``
	s = "HELLO" (38)
	for i in range(len(s)):
	    print(s[i % 2], end=" ")
	``
		``
		for i in range(5): (39)
		    if i == 3:
		        break
		    if i == 1:
		        continue
		    print(i, end=" ")
		``

``
for i in range(6):   (40)
    if i == 2:
        continue
    if i == 4:
        break
    print(i, end=" ")
``
	``
	for i in range(1, 10): (41)
	    if i % 2 == 0:
	        continue
	    if i > 5:
	        break
	    print(i, end=" ")
	``
		``
		for i in range(3): (42)
		    for j in range(3):
		        if j == 1:
		            continue
		        if i == 2:
		            break
		        print(f"({i}, {j})", end=" ")
		``