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Lab No 1

# Shape Programs in Python

Below are five Python programs using `\*` to draw shapes. Each program is followed by its console output.

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## 1. Right-Angled Triangle

```python

for i in range(1, 6):

print('\*' \* i)

```

\*\*Output:\*\*

```

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```

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## 2. Pyramid

```python

rows = 5

for i in range(rows):

print(' ' \* (rows - i - 1) + '\*' \* (2 \* i + 1))

```

\*\*Output:\*\*

```

\*

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\*\*\*\*\*\*\*\*\*

```

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## 3. Square

```python

size = 5

for i in range(size):

print('\*' \* size)

```

\*\*Output:\*\*

```

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\*\*\*\*\*

\*\*\*\*\*

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```

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## 4. Inverted Triangle

```python

for i in range(5, 0, -1):

print('\*' \* i)

```

\*\*Output:\*\*

```

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\*

```

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## 5. Diamond

```python

rows = 4

for i in range(rows):

print(' ' \* (rows - i - 1) + '\*' \* (2 \* i + 1))

for i in range(rows - 2, -1, -1):

print(' ' \* (rows - i - 1) + '\*' \* (2 \* i + 1))

```

\*\*Output:\*\*

```

\*

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```