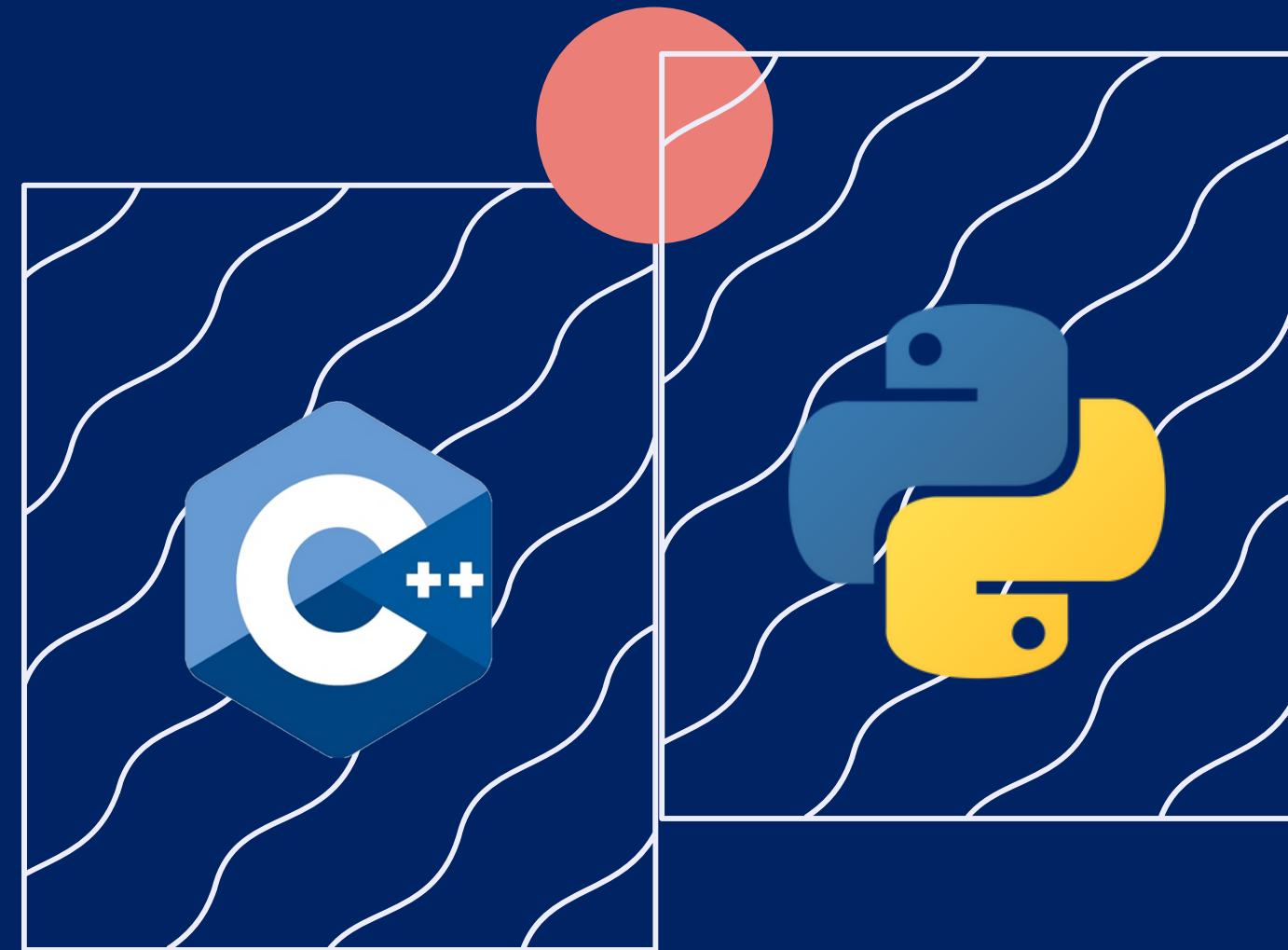
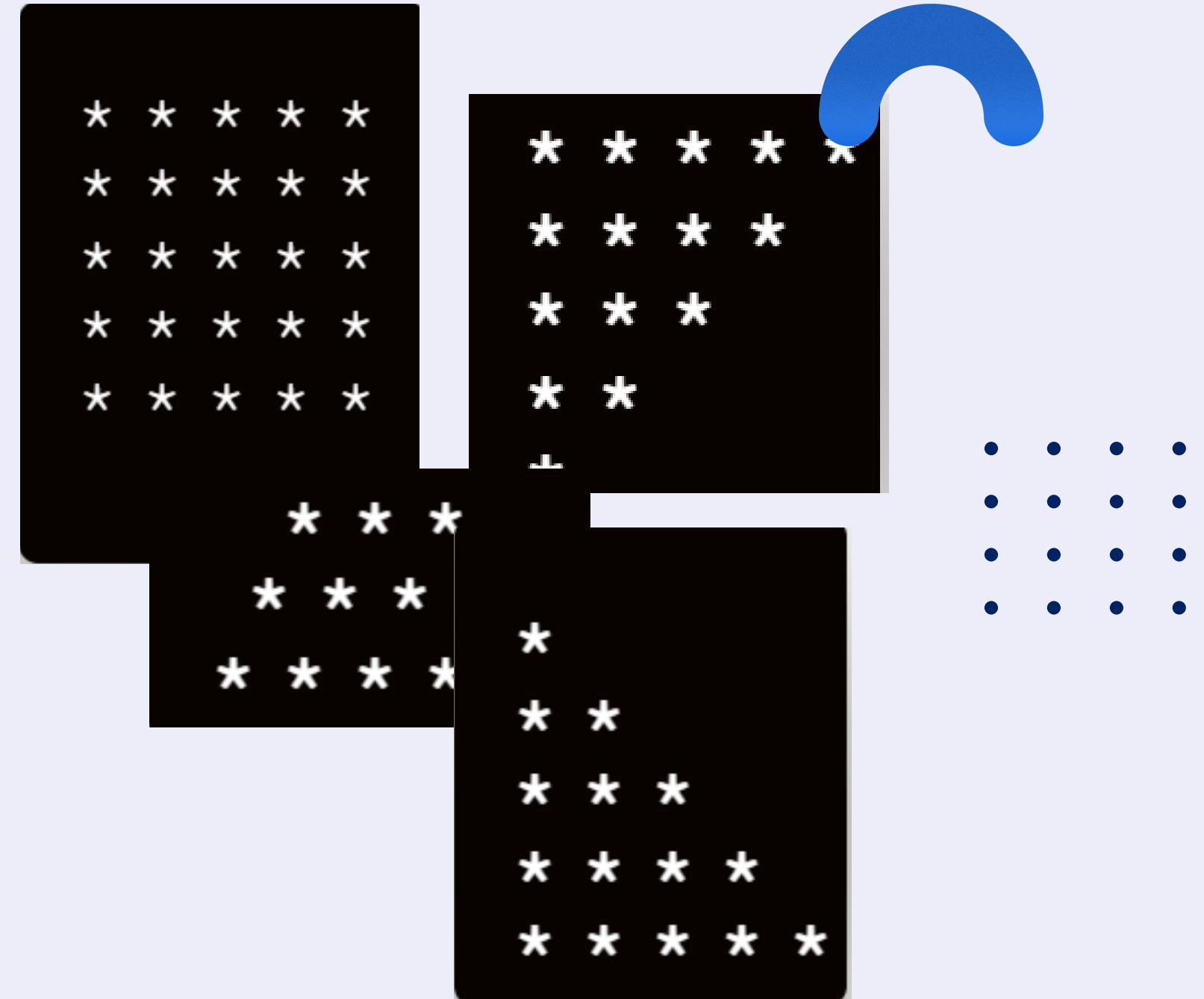
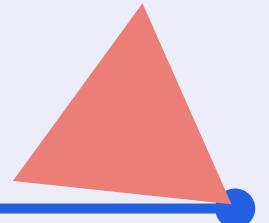


# Star Pattern ?

Aditya Hermawan



# Creating 2D figures/shapes with For Loops



# SQUARE

C++

```
● ● ●  
  
#include <iostream>  
using namespace std;  
  
int main ()  
{  
    cout << "1. SQUARE" << endl;  
    for ( int i=0 ; i<5 ; i++ )  
    {  
        for ( int x=0 ; x<5 ; x++ )  
            cout << "* ";  
        cout << endl;  
    }  
}
```

```
• • • •  
• • • •  
• • • •  
• • • •
```

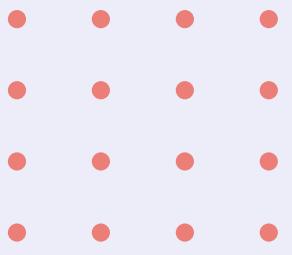
PYTHON

```
● ● ●  
  
for i in range(5):  
    for j in range(5):  
        print("*", end=" ")  
    print()
```

OUTPUT

*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*

# HALF LEFT TRIANGLE



## C++

```
#include <iostream>
using namespace std;

int main ()
{
    cout << "2. HALF LEFT TRIANGLE" << endl;
    for ( int i=0 ; i<5 ; i++ )
    {
        for ( int x=0 ; x<i+1 ; x++ )
            cout << "* ";
        cout << endl;
    }

    cout << endl;
}
```

## PYTHON

```
for i in range(5):
    for j in range(i+1):
        print("*", end=" ")
    print()
```

OUTPUT

```
*
* *
* * *
* * * *
* * * * *
```

A black rectangular box containing a white half-left triangle pattern made of asterisks (\*). The pattern has 5 rows, with the number of stars increasing from 1 in the first row to 5 in the last row.

# HALF LEFT DOWN TRIANGLE

C++

```
● ● ●  
  
#include <iostream>  
using namespace std;  
  
int main ()  
{  
    cout << "3. HALF LEFT DOWN TRIANGLE" << endl;  
    for (int i=0 ; i<5 ; i++)  
    {  
        for (int x=i ; x<5 ; x++)  
            cout << "* ";  
        cout << endl;  
    }  
  
    cout << endl << endl;  
}
```

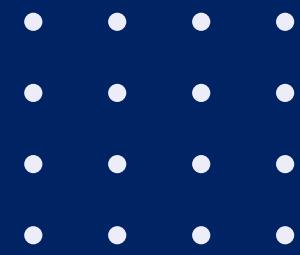
PYTHON

```
● ● ●  
  
for i in range(6,0,-1):  
    for j in range(i-1):  
        print("*", end=" ")  
    print()
```

● ● ● ● ●  
● ● ● ● ●  
● ● ● ● ●  
● ● ● ● ●

OUTPUT

*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*
*				



# TRAPEZIUM

C++

```
#include <iostream>
using namespace std;

int main ()
{
    cout << "5. TRAPEZIUM " << endl;
    for (int i=3 ; i<=5 ; i++)
    {
        for (int x=i ; x<=5 ; x++)
        {
            cout << " ";
        }
        for (int y=0 ; y<=i ; y++)
        {
            cout << "* ";
        }
        cout << endl;
    }
}
```

PYTHON

```
for i in range(3,6):
    for j in range(i,6):
        print(end=" ")
    for x in range(0, i):
        print("*", end=" ")
    print()
```



OUTPUT

```
* * *
* * * *
* * * * *
```

# BONUS BONUS BONUS

# TRIANGLE

C++

```
● ● ●  
  
#include <iostream>  
using namespace std;  
  
int main ()  
{  
    cout << "4. TRIANGLE " << endl;  
    for (int i=1 ; i<=5 ; i++)  
    {  
        for ( int x=i ; x<=5 ; x++)  
        {  
            cout << " ";  
        }  
        for (int y=0 ; y<i ; y++)  
        {  
            cout << "* ";  
        }  
        cout << endl;  
    }  
    cout << endl;  
}
```



PYTHON

```
● ● ●  
  
for i in range(1,6):  
    for j in range(i,6): #for spacing  
        print(end=" ")  
    for x in range(0, i): #for star output  
        print("*", end=" ")  
    print()
```

OUTPUT

A black box containing a white star pattern, showing the output of the Python code. The pattern consists of 5 rows of stars: 1 star in the first row, 2 stars in the second, 3 stars in the third, 4 stars in the fourth, and 5 stars in the fifth.

```
*  
* *  
* * *  
* * * *  
* * * * *
```



Thank You !!