

### ASSIGNMENT 3:

#### HOLLOW DIAMOND PYRAMID

Write a Python program to print Hollow Diamond Pattern, use Java Loops to print this pyramid.

Code:

```
def print_hollow_diamond(n):

    # Print the upper half of the diamond

    for i in range(n):

        for j in range(n - i - 1):

            print(" ", end="")

        for j in range(2 * i + 1):

            if j == 0 or j == 2 * i:

                print("*", end="")

            else:

                print(" ", end="")

        print()

    # Print the lower half of the diamond

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

        for j in range(n - i - 1):

            print(" ", end="")

        for j in range(2 * i + 1):

            if j == 0 or j == 2 * i:

                print("*", end="")

            else:

                print(" ", end="")

        print()
```

```
# Example usage
```

```
if __name__ == "__main__":
```

```
    rows = 5 # You can change this value to print a different size of the diamond
```

```
    print_hollow_diamond(rows)
```