# **Pascal's Triangle Coding Solution**

#### HATFD1035

1

#### **Problem Statement:**

Print Pascal's Triangle Write a program to generate and print the first n rows of Pascal's triangle without using built-in math or array functions. For n = 5, the output should be:

11 121 1331 14641 **SOLUTION:** echo -n "Enter n: " read n for ((row=0; row<n; row++)); do # print leading spaces for alignment for ((space=0; space<n-row; space++)); do echo -n " " done # calculate values for the row value=1 for ((col=0; col<=row; col++)); do # Print the current value

echo -n "\$value "

```
# calculate the next value in the row
value=$((value * (row - col) / (col + 1)))
done
echo
done
```

### **Sample Inputs/Outputs**

Sample Input 1: Enter n: 3

Output:

1

11

121

## Sample Input 2: Enter n: 5

### Output:

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## Sample Input 3: Enter n: 6

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