

Maharashtra Education Society's Institute of Management and Career Courses (IMCC), Pune AUTONOMOUS



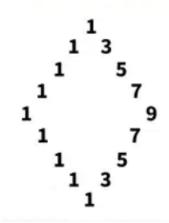
Academic Year 2025-26 IT12 DSA - Practical Assignments

1. Write a program to print pallindromic pyramid

2. Write a program to print hollow diamond star pattern



3. Write a program to print hollow diamond number pattern





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- 4. Write a program to find all occurrences of substring in a given string. Example- Given String- "Python programming is an interesting programming language" substring= "program"
 Output- It should print positions of substring like 7, 37
- 5. Write a program to count and print the number of vowels, consonants, digits, words, lines, special characters in a given text.
- 6. Write a Python program to find the longest word in a sentence.
- 7. Write a Python program to replace all occurrences of a substring with another substring. Example- text = "I like apple, apple is my favorite fruit. apple pie is delicious." old_sub = "apple", new_sub = "orange"

 Output- "I like orange, orange is my favorite fruit. orange pie is delicious."
- 8. Write a Python program to check if a string contains only unique characters.
- 9. Write a program to remove duplicates from array.
- 10. Write a program to swap consecutive numbers in an array.

Dr. Ashwini Patil Course Teacher Dr. Ravikant Zirmite Course Teacher