**Problem # 1:** π can be calculated using the following infinite series:

Write a code that prints the value of π after the first 100 terms, 200 terms and 300 terms (in the same code).

**Problem # 2:** Write a program which takes number of lines of patterns and print following patterns (Sample output for noOfLines = 6)

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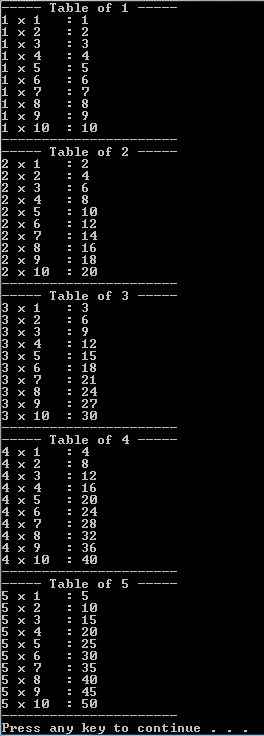
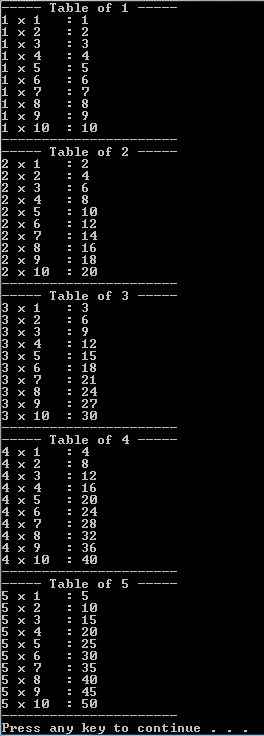
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**Problem # 3:** Write a program

that uses nested for – loops to print first 10 entries of tables of x to y. For example:

If user enters the value of x “1” and value of y “5” then the following output should be displayed.