| **Console applications: Basic Concepts** |
| --- |
| 1. Write a program to get integer, double, character and string values from the user and display it on the screen. 2. Write a program to check whether the entered value is numeric or not. [Note: use try and catch.] 3. Write a program to accept a number from the user and throw an exception if the number is not an even number. 4. Write a program to find whether the given year is leap year or not. (Leap year is evenly divisible by 4, but if it is evenly divisible by 100 then it is not a leap year, but if it is evenly divisible by 400, then it is a leap year) 5. Write a program to check whether the given number is perfect or not. A number is perfect if the sum of its divisor is the same as the number itself.   (For example: **6** is the smallest perfect number which can be divided by 1, 2 and 3 so 1+2+3=6 **OR 28** because the divisors of 28 are 1, 2, 4, 7, 14 so 1+2+4+7+14=28 too.)   1. Write a program to check whether the given number is lucky or not. (A number is lucky if the number is itself a prime and the sum of digit of a number is also prime) 2. Write a program to generate Floyd's Triangle. 3. Write a program to replace a substring of given length with new substring. (Input: starting index and length of substring) |