

Tier 1 (Beginner)

1. Write a program that asks the user for their name and greets them with their name.
2. Write a program that asks the user for a number n and prints the sum of the numbers 1 to n .
3. Find the sum of all the multiples of 3 or 5 below 1000.
4. Write a program that asks the user for a number n and prints out the factorial of the number (a factorial the product of an integer and all the integers below it; e.g., factorial four ($4!$) is equal to $1*2*3*4 = 24$)
5. Implement `int sqrt(int x)`. Compute and return the square root of x , where x is guaranteed to be a non-negative integer. Since the return type is an integer, the decimal digits are truncated and only the integer part of the result is returned.
Example 1:
Input: 4
Output: 2

Example 2:
Input: 8
Output: 2
Explanation: The square root of 8 is 2.82842..., and since the decimal part is truncated, 2 is returned.
6. Write a program that takes in the user's first name as an input and prints the number of vowels that appear in the name (e.g. Amanda should print 3).
7. Write a program that allows the user to roll 3 dice simultaneously. All 3 should randomly display a number, if all dice display the same number then the user wins.
8. Write a program to reverse the digits of an integer. (e.g. 321 is 123)