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| ***Arab Academy for Science & Technology***  ***College of Engineering & Technology - Cairo***  ***Computer Engineering Department*** |  |
| Course Code: CC114  Course Title : Introduction To Programming  **Project A – Strong number + Prime number checker** |

For the following question:

- Implement the suitable design

- You can use additional variables in your program (if needed)

Create a program that checks if the entered 3-digits number is strong one or not.

A number is called a strong if the sum of the factorials of digits of a number is equal to the original number

For example: 145=> 1! + 4! + 5! = 1 + 24 + 120 = 145 => strong number.

125=> 1! + 2! + 5! = 1 + 2 + 120 = 124 => not a strong number.

Bonus:

Edit the above program to check the entered number if it is prime one or not.

A prime number is a natural number greater than 1 that has no positive divisors other than 1 and itself.

For example: 3 is prime number, but 4 isn't as it's divisible by 2.

\* You've to submit a report including:   
- The program design

- A hard copy of your code

- A CD contains the whole project