

MST Python Week 2 Assignment

1. Write an interactive Python Program to implement following “Guess Game”
 - i. Think of a number between 1 and 10 and store it in a variable called "secretNumber".
 - ii. Ask the user to enter a number between 1 and 10 and store it in a variable called "guess".
 - iii. Use control statements (if-else) to check if the guess is correct, higher, or lower than the secret number.
 - iv. Display appropriate messages to the user based on their guess:
 - If the guess is correct, display "Congratulations! You guessed the number correctly!"
 - If the guess is higher than the secret number, display "Too high! Try again."
 - If the guess is lower than the secret number, display "Too low! Try again."
 - v. Allow the user to keep guessing until they guess the correct number.
2. Write a program to find and print the Factorial of this number. The Factorial of a positive integer N refers to the product of all number in the range from 1 to N.
 - Roy wants to change his profile picture on Facebook. Now Facebook has some restriction over the dimension of picture that we can upload.
Minimum dimension of the picture can be $L \times L$, where L is the length of the side of square. Now Roy has N photos of various dimensions.
Dimension of a photo is denoted as $W \times H$
where W - width of the photo and H - Height of the photo
 - When any photo is uploaded following events may occur:

[1] If any of the width or height is less than L , user is prompted to upload another one. Print "**UPLOAD ANOTHER**" in this case.

[2] If width and height, both are large enough and

(a) if the photo is already square then it is accepted. Print "**ACCEPTED**" in this case.

(b) else user is prompted to crop it. Print "**CROP IT**" in this case.

Given L, N, W and H as input, write a program to print appropriate text as output.

