## Quiz \#11

1. Create a script that will search for a certain number in a variable-sized array of values. Use the following array and search for the number 23 for test purposes. The output should state 'array(7) has the value 23'. Array: $\left[\begin{array}{llllllll}2 & 4 & 5 & 7 & 9 & 14 & 23 & 1\end{array}\right]$ ** Do not use built in functions **
2. The factorial function is defined for any integer $>=0$ as

$$
n!=\left\{\begin{array}{ll}
1 & n=0 \\
n \times(n-1) \times(n-2) \times \ldots \times 2 \times 1 & n>0
\end{array}\right\}
$$

Write a script, using a for loop, to calculate the factorial for a positive value of $n$.
For example, 5 ! $=1 \times 2 \times 3 \times 4 \times 5=120$
The user should input the value of n and a formatted print statement should be used.
Running the code should produce the following:
Enter the value of n : 5
$5!=120$

