

LAB ASSIGNMENT-3

Submission Date: 13-09-21

- WAP to find factorial of a given number.
- WAP to find the sum of all the digits of a given number.
- WAP to check a given number is palindrome or not. (If reverse of a number and number is same, then it is called palindrome).
- WAP to check a given number is prime number or not.
- WAP to find X to the power of Y .
- WAP to check a given number is Armstrong or not.(A positive integer of n digits is called Armstrong number of order n if $xyz.. = \text{pow}(x,n) + \text{pow}(y,n) + \text{pow}(z,n) + \dots$ Ex. $153 = 1^3 + 5^3 + 3^3$.)
- WAP to print the following pattern: 1 3 5 7 9till a user input number.
- WAP to print the following pattern 1 3 7 13 21... till a user input number.
- WAP to print Fibonacci series. 0 1 1 2 3 5 8 13 ... till 100.
- WAP to print all prime number between 2 to a user input value.
- WAP to print following patterns:

<pre>* ** *** **** *****</pre>	<pre>* ** *** **** *****</pre>	<pre>***** **** *** ** *</pre>
<pre>***** **** *** ** *</pre>	<pre>1 1 2 1 2 3 1 2 3 4 1 2 3 4 5</pre>	<pre>5 4 3 2 1 5 4 3 2 5 4 3 5 4 5</pre>
<pre>A A B A B C A B C D A B C D E</pre>	<pre>A B C D E A B C D A B C A B A</pre>	<pre> * * * * * * * * * * * * * * * * * * * * * * * *</pre>