



Department of Computer Science and Engineering

Course Code:CSE422

Credits: 1.5

Course Name: Artificial Intelligence

Prerequisite: CSE111, CSE221

Activity List

Task 01: Mark 10

Write a factorial function using recursive technique in python using **numpy** library, the program will take 5 input numbers from user, store them in a numpy array, then there will be a loop that will call recursive function and return factorial values. Then values will be printed sequentially

Task 02: Mark 7

Create a vector of size 10 with zeros. Then create a vector of size 10 with ones. Change their dimension and after that merge the two vector vertically and horizontally using “concatenate”.

Task 03: Mark 3

How to read a file content given below using numpy?

```
# File content:
# -----
1,2,3,4,5
6,,7,8
,,9,10,11
# -----
```

Hints: <https://www.machinelearningplus.com/python/101-numpy-exercises-python/>

Evaluation Process (VIVA): You have to explain your program to the Lab Instructor.