**LINEAR ALGEBRA**

Experiment No. # 6

**MULTIDIMENSIONAL VECTORS**

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Score

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| --- | --- | --- | --- | --- |
| **CRITERIA** | **Exceeds Expectations** | **Meets Expectations** | **Needs Improvement** | **Unsatisfactory** |
| Functionality  (60 points) |  |  |  |  |
| Completeness  (20 points) |  |  |  |  |
| Structure  (20 points) |  |  |  |  |

**Remarks:**

*Submitted by:*

**Ugot, Aaron Paul M.**

**<Monday 7:00-10:00> / <58013>**

*Submitted to*

**<Ms. Maria Rizette Sayo>**

<Facilitator>

*Date Performed:*

**14-10-2023**

*Date Submitted*

**15-10-2023**

**Objective**

To apply and understand the essence, concepts, principles, and applications of special vector spaces

**Algorithm**

1. Type the main title of this activity as "Multidimensional Vectors”
2. On your GitHub, create a repository name Linear Algebra 58013
3. On your Colab, name your activity as Python Exercise 6.ipynb and save a copy to your GitHub repository

**Coding Activity 6**

*Accessing a multidimensional list:*

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| # Python program to demonstrate printing  # of complete multidimensional list  a = [[2, 4, 6, 8, 10], [3, 6, 9, 12, 15], [4, 8, 12, 16, 20]]  print(a) |

*Accessing with the help of loop.*

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| # Python program to demonstrate printing  # of complete multidimensional list row  # by row.  a = [[2, 4, 6, 8, 10], [3, 6, 9, 12, 15], [4, 8, 12, 16, 20]]  for record in a:  print(record**)** |

*Accessing using square brackets*

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| # Python program to demonstrate that we  # can access multidimensional list using  # square brackets  a = [ [2, 4, 6, 8 ],  [ 1, 3, 5, 7 ],  [ 8, 6, 4, 2 ],  [ 7, 5, 3, 1 ] ]    for i in range(len(a)) :  for j in range(len(a[i])) :  print(a[i][j], end=" ")  print() |