**Patan Multiple Campus**

**Practical No. 4: Correlation and Regression**

**Level:- TU BCA 3rd Semester**

**Date:- 2081/01/16**

**Subject:- Probability and Statistics (CACS-202)**

**Roll No:- 13/080**

**Name: Bimal Acharya**

**Question:-**

The students got the following percentage of marks in statistics and mathematics:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Statistics** | **78** | **36** | **98** | **25** | **75** | **82** | **90** | **62** | **65** | **39** | **80** |
| **Mathematics** | **84** | **51** | **91** | **60** | **68** | **62** | **86** | **58** | **63** | **25** | **47** |

1. Find Karl-Pearson’s correlation coefficient between marks in statistics and mathematics and interpret it.
2. Find probable error and test for significance.
3. Find units of population correlation coefficient.
4. Find coefficient of determination and interpret it.

**Working Expression:-**