**DAILY ASSESSMENT FORMAT**

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| **Date:** | **03/07/2020** | **Name:** | **PRIYA P RAO** |
| **Course:** | **IIRS Outreach Program on Satellite Photyogrammetry and its Application** | **USN:** | **4AL18EC041** |
| **Topic:** | **Programmetric products from Satellite stereo – images** | **Semester & Section:** | **4th sem ‘A’ section.** |
| **Github Repository:** | **Priya-Rao** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session**  **C:\Users\Pawan\Desktop\NITTI 1.PNG**  **C:\Users\Pawan\Desktop\Y2.PNG** |
| **In today’s session I have learnt about:**   * **Automatic DTM Point Collection :** * **Least square correlation :**   **When least square correlation fits a search window to the reference window, both radiometric and geometric transformations are calculated.**   * **Feature based matching :** * **Feature based matching determines the correspondence between image features.** * **Most feature based techniques match extracted point features as opposed to other features such as linear or complex objects.** * **The feature points are also commonly referred to as interest points.** * **Planimetrically Correct Ortho-image :**   **Ortho - rectification creates planimetrically correct images, which displays no relief displacement.**   * **Advantages of Digital Ortho – photos :** * **Product which can be readily interpreted like a photograph.** * **Product on which distances, angles and are as can be measured and mapped - in a digital format.** * **Gather coordinates from imagery.** * **Integrate imagery into larger projects.** * **Mosaics.** * **Uses with GPS Ground truthing.** * **Inputs for generating an Ortho – photo :** * **The input data required for Ortho – photo generation using aerial photographs :** * **Focal length** * **Lens distortions** * **Fiducial marks coordination** * **Ground control points** * **Digital elevation model** * **Input data required for Ortho – photo generation using Satellite images :** * **Digital elevation models** * **Ground control points** * **Satellite Ephermeris** * **Radiometrically corrected geometrically uncorrected raw image data** |