DIT University Dehradun

Department of Computer Science & Engineering

Subject: DOTNET Technologies (CS205) **Semester:** 4th (CSE-BDA, CCV, CSF, IOT, ML, IT) **Session:** 2019-20 EVEN

Assignment (Subject: DOTNET)

Assignment Uploaded on LMS Moodle dated:12 March 2020 **Submission Date: 19-March-2020 THU**

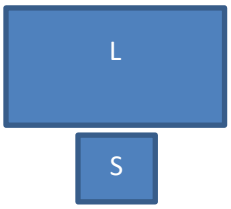
Problem 1

A furniture manufacturer produces two sizes of boxes (large, small) that are used to make either a table or a chair. A Table is prepared with one large and one small box. A chair is prepared with one large and two small boxes. Give a solution to the manufacturer company that by what number it needs to be manufactured for maximum profit. If profit on 1 table is $3 and on 1 chair is $5.
(based on Linear equation y=ax+b, or ax+by=c)

Large Box

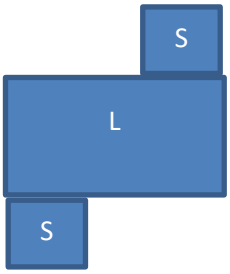
Small box

A **Table** required 1 small and 1 large box to Prepared.



A table design

A **chair** required 1 large and 2 small boxes to prepare.



A chair design

Case 1: Number of Boxes for Large=12, small = 12
Case 2: Number of Boxes for Large = 12, small=20
Case 3: Number of Boxes for Large = 12, small=25