# SYMBIOSIS INSTITUTE OF TECHNOLOGY (SIT)

## Constituent of Symbiosis International (Deemed University), Pune

(Established under Section 3 of the UGC Act of 1956 vide notification number F-9-12/2001-U-3 of the Government of india)
Re-Accredited by NAAC with 'A' Grade

॥वसुधैव कुटुम्बकम्॥

## Assignment No. 03

| | |
|---|---|
| **Name of Student** | **Antriksh Sharma** |
| **PRN No.** | **20070122021** |
| **Title of Lab Assignment** | <ul><li>**Reading different types of data sets (.txt, .csv) from web and disk and writing in file in specific disk location.**</li><li>**Reading Excel data sheet in R.**</li><li>**Reading XML dataset in R.**</li></ul> |

**Code & Output:**

#Load csv data from web
csv_data_web <- read.csv("https://github.com/datablist/sample-csv-files/raw/main/files/organizations/organizations-100.csv")
View(csv_data_web)

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```
setwd('~/Documents/college/ds_lab/assignment_3/')
#Save csv data to disk write.csv(csv_data_web, 'sampledata.csv') #Load csv data from disk
csv_data_local <- read.csv("~/Documents/college/ds_lab/assignment_3/sampledata.csv")
View(csv_data_local)
```

| | X | Index | Organization.Id | Name | Website | Country | Description | Founded | Industry | Number.of.em |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | FAB0d41d5b5d22c | Ferrell LLC | https://price.net/ | Papua New Guinea | Horizontal empowering knowledgebase | 1990 | Plastics | |
| 2 | 2 | 2 | 6A7EdDEA9FaDC52 | Mckinney, Riley and Day | http://www.hall-buchanan.info/ | Finland | User-centric system-worthy leverage | 2015 | Glass / Ceramics / Concrete | |
| 3 | 3 | 3 | 0bFED1ADAE4bcC1 | Hester Ltd | http://sullivan-reed.com/ | China | Switchable scalable moratorium | 1971 | Public Safety | |
| 4 | 4 | 4 | 2bFC18e6a4ce42f | Holder-Sellers | https://becker.com/ | Turkmenistan | De-engineered systemic artificial intelligence | 2004 | Automotive | |
| 5 | 5 | 5 | 9eE8A6aAEb96C24 | Mayer Group | http://www.brewer.com/ | Mauritius | Synchronized needs-based challenge | 1991 | Transportation | |
| 6 | 6 | 6 | cC757116fe1C085 | Henry-Thompson | http://morse.net/ | Bahamas | Face-to-face well-modulated customer loyalty | 1992 | Primary / Secondary Education | |
| 7 | 7 | 7 | 219233e8aFF18C3 | Hansen-Everett | https://www.kidd.org/ | Pakistan | Seamless disintermediate collaboration | 2018 | Publishing Industry | |
| 8 | 8 | 8 | ccc93DCF81a31CD | Mcintosh-Mora | https://www.brooks.com/ | Heard Island and McDonald Islands | Centralized attitude-oriented capability | 1970 | Import / Export | |
| 9 | 9 | 9 | 0B4F93aA06ED03e | Carr Inc | http://ross.com/ | Kuwait | Distributed impactful customer loyalty | 1996 | Plastics | |
| 10 | 10 | 10 | 738b5aDe6B1C6A5 | Gaines Inc | http://sandoval-hooper.com/ | Uzbekistan | Multi-lateral scalable protocol | 1997 | Outsourcing / Offshoring | |
| 11 | 11 | 11 | AE61b8Ffebbc476 | Kidd Group | http://www.lyons.com/ | Bouvet Island (Bouvetoya) | Proactive foreground paradigm | 2001 | Primary / Secondary Education | |
| 12 | 12 | 12 | eb3B7D06cCdD609 | Crane-Clarke | https://www.sandoval.com/ | Denmark | Front-line clear-thinking encryption | 2014 | Food / Beverages | |
| 13 | 13 | 13 | 8D0c29189C9798B | Keller, Campos and Black | https://www.garner.info/ | Liberia | Ameliorated directional emulation | 2020 | Museums / Institutions | |
| 14 | 14 | 14 | D2c91cc03CA394c | Glover-Pope | http://www.silva.biz/ | United Arab Emirates | Persevering contextually-based approach | 2013 | Medical Practice | |
| 15 | 15 | 15 | C8AC1eaf9C036F4 | Pacheco-Spears | https://aguilar.com/ | Sweden | Secured logistical synergy | 1984 | Maritime | |
| 16 | 16 | 16 | b5D10A14f7a8AfE | Hodge-Ayers | http://www.archer-elliott.com/ | Honduras | Future-proofed radical implementation | 1990 | Facilities Services | |
| 17 | 17 | 17 | 68139b5C4De03B4 | Bowers, Guerra and Krause | http://www.carrillo-nicholson.com/ | Uganda | De-engineered transitional strategy | 1972 | Primary / Secondary Education | |
| 18 | 18 | 18 | 5c2EffEfdba28dF | Mckenzie-Melton | http://montoya-thompson.com/ | Hong Kong | Reverse-engineered heuristic alliance | 1998 | Investment Management / Hedge Fund / Private Equity | |
| 19 | 19 | 19 | ba179F19F7925f5 | Branch-Mann | http://www.lozano.com/ | Botswana | Adaptive intangible frame | 1999 | Architecture / Planning | |
| 20 | 20 | 20 | c1Ce98350BAc66b | Weiss and Sons | https://barrett.com/ | Korea | Sharable optimal functionalities | 2011 | Plastics | |
| 21 | 21 | 21 | 8de40AC4e6EaCa4 | Velez, Payne and Coffey | http://burton.com/ | Luxembourg | Mandatory coherent synergy | 1986 | Wholesale | |
| 22 | 22 | 22 | Aad86a4F0385F2d | Harrell LLC | http://www.frey-rosario.com/ | Guadeloupe | Reverse-engineered mission-critical moratorium | 2018 | Construction | |
| 23 | 23 | 23 | 22aC3FFd64fD703 | Eaton, Reynolds and Vargas | https://www.freeman.biz/ | Monaco | Self-enabling multi-tasking process improvement | 2014 | Luxury Goods / Jewelry | |
| 24 | 24 | 24 | 5Ec4C272bCf085c | Robbins-Cummings | http://donaldson-wilkins.com/ | Belgium | Organic non-volatile hierarchy | 1991 | Pharmaceuticals | |
| 25 | 25 | 25 | 5fDBeA8BB91a000 | Jenkins Inc | http://www.kirk.biz/ | South Africa | Front-line systematic help-desk | 2002 | Insurance | |

```
library(readxl)
#Load excel data from disk
excel_data <- read_excel("~/Documents/college/ds_lab/assignment_3/sampledata.xlsx")
View(excel_data)
```

| | Segment | Country | Product | Discount Band | Units Sold | Manufacturing Price | Sale Price | Gross Sales | Discounts | Sales | COGS | Profit | Date | Month Number | Month Name | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Government | Canada | Carretera | None | 1618.5 | 3 | 20 | 32370.0 | 0.000 | 32370.00 | 16185.0 | 16185.000 | 2014-01-01 | 1 | January | 2014 |
| 2 | Government | Germany | Carretera | None | 1321.0 | 3 | 20 | 26420.0 | 0.000 | 26420.00 | 13210.0 | 13210.000 | 2014-01-01 | 1 | January | 2014 |
| 3 | Midmarket | France | Carretera | None | 2178.0 | 3 | 15 | 32670.0 | 0.000 | 32670.00 | 21780.0 | 10890.000 | 2014-06-01 | 6 | June | 2014 |
| 4 | Midmarket | Germany | Carretera | None | 888.0 | 3 | 15 | 13320.0 | 0.000 | 13320.00 | 8880.0 | 4440.000 | 2014-06-01 | 6 | June | 2014 |
| 5 | Midmarket | Mexico | Carretera | None | 2470.0 | 3 | 15 | 37050.0 | 0.000 | 37050.00 | 24700.0 | 12350.000 | 2014-06-01 | 6 | June | 2014 |
| 6 | Government | Germany | Carretera | None | 1513.0 | 3 | 350 | 529550.0 | 0.000 | 529550.00 | 393380.0 | 136170.000 | 2014-12-01 | 12 | December | 2014 |
| 7 | Midmarket | Germany | Montana | None | 921.0 | 5 | 15 | 13815.0 | 0.000 | 13815.00 | 9210.0 | 4605.000 | 2014-03-01 | 3 | March | 2014 |
| 8 | Channel Partners | Canada | Montana | None | 2518.0 | 5 | 12 | 30216.0 | 0.000 | 30216.00 | 7554.0 | 22662.000 | 2014-06-01 | 6 | June | 2014 |
| 9 | Government | France | Montana | None | 1899.0 | 5 | 20 | 37980.0 | 0.000 | 37980.00 | 18990.0 | 18990.000 | 2014-06-01 | 6 | June | 2014 |
| 10 | Channel Partners | Germany | Montana | None | 1545.0 | 5 | 12 | 18540.0 | 0.000 | 18540.00 | 4635.0 | 13905.000 | 2014-06-01 | 6 | June | 2014 |
| 11 | Midmarket | Mexico | Montana | None | 2470.0 | 5 | 15 | 37050.0 | 0.000 | 37050.00 | 24700.0 | 12350.000 | 2014-06-01 | 6 | June | 2014 |
| 12 | Enterprise | Canada | Montana | None | 2665.5 | 5 | 125 | 333187.5 | 0.000 | 333187.50 | 319860.0 | 13327.500 | 2014-07-01 | 7 | July | 2014 |
| 13 | Small Business | Mexico | Montana | None | 958.0 | 5 | 300 | 287400.0 | 0.000 | 287400.00 | 239500.0 | 47900.000 | 2014-08-01 | 8 | August | 2014 |
| 14 | Government | Germany | Montana | None | 2146.0 | 5 | 7 | 15022.0 | 0.000 | 15022.00 | 10730.0 | 4292.000 | 2014-09-01 | 9 | September | 2014 |
| 15 | Enterprise | Canada | Montana | None | 345.0 | 5 | 125 | 43125.0 | 0.000 | 43125.00 | 41400.0 | 1725.000 | 2013-10-01 | 10 | October | 2013 |
| 16 | Midmarket | United States of America | Montana | None | 615.0 | 5 | 15 | 9225.0 | 0.000 | 9225.00 | 6150.0 | 3075.000 | 2014-12-01 | 12 | December | 2014 |
| 17 | Government | Canada | Paseo | None | 292.0 | 10 | 20 | 5840.0 | 0.000 | 5840.00 | 2920.0 | 2920.000 | 2014-02-01 | 2 | February | 2014 |
| 18 | Midmarket | Mexico | Paseo | None | 974.0 | 10 | 15 | 14610.0 | 0.000 | 14610.00 | 9740.0 | 4870.000 | 2014-02-01 | 2 | February | 2014 |
| 19 | Channel Partners | Canada | Paseo | None | 2518.0 | 10 | 12 | 30216.0 | 0.000 | 30216.00 | 7554.0 | 22662.000 | 2014-06-01 | 6 | June | 2014 |
| 20 | Government | Germany | Paseo | None | 1006.0 | 10 | 350 | 352100.0 | 0.000 | 352100.00 | 261560.0 | 90540.000 | 2014-06-01 | 6 | June | 2014 |
| 21 | Channel Partners | Germany | Paseo | None | 367.0 | 10 | 12 | 4404.0 | 0.000 | 4404.00 | 1101.0 | 3303.000 | 2014-07-01 | 7 | July | 2014 |
| 22 | Government | Mexico | Paseo | None | 883.0 | 10 | 7 | 6181.0 | 0.000 | 6181.00 | 4415.0 | 1766.000 | 2014-08-01 | 8 | August | 2014 |
| 23 | Midmarket | France | Paseo | None | 549.0 | 10 | 15 | 8235.0 | 0.000 | 8235.00 | 5490.0 | 2745.000 | 2013-09-01 | 9 | September | 2013 |
| 24 | Small Business | Mexico | Paseo | None | 788.0 | 10 | 300 | 236400.0 | 0.000 | 236400.00 | 197000.0 | 39400.000 | 2013-09-01 | 9 | September | 2013 |
| 25 | Midmarket | Mexico | Paseo | None | 2472.0 | 10 | 15 | 37080.0 | 0.000 | 37080.00 | 24720.0 | 12360.000 | 2014-09-01 | 9 | September | 2014 |
| 26 | Government | United States of America | Paseo | None | 1143.0 | 10 | 7 | 8001.0 | 0.000 | 8001.00 | 5715.0 | 2286.000 | 2014-10-01 | 10 | October | 2014 |

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```
library(XML)
#Load xml data from disk
xml_data <- xmlToDataFrame("~/Documents/college/ds_lab/assignment_3/sampledata.xml")
View(xml_data)
```

| | title | author |
|---|---|---|
| 1 | The Great Gatsby | F. Scott Fitzgerald |
| 2 | To Kill a Mockingbird | Harper Lee |
| 3 | 1984 | George Orwell |

**Conclusion:** *We've learnt how to read and write different types of datasets.*

Faculty Name: Mr. Sachin R. Gaikwad