

**FACULTY OF ENGINEERING**

### **A REPORT ABOUT HOW TO IMPORT EXCELL DATA FROM KAGGLE.COM DATABASE TO MATLAB & TO WRITE A MATLAB CODE THAT CAN STORE EACH MEMBERS AFFIRMATION ATRIBUTES IN TO A SINGLE VARIABLE.**

**COURSE UNIT: COMPUTER PROGRAMMING**

### **LECTURER: Mr. MASERUKA BENEDICTO**

**GROUP B**

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Table of Contents

A REPORT ABOUT HOW TO IMPORT EXCELL DATA FROM KAGGLE.COM DATABASE TO MATLAB & TO WRITE A MATLAB CODE THAT CAN STORE EACH MEMBERS AFFIRMATION ATRIBUTES IN TO A SINGLE VARIABLE. [1](#_Toc31737)

LECTURER: Mr. MASERUKA BENEDICTO [1](#_Toc22973)

[ACKNOWLEDGEMENT 4](#_Toc28584)

[ABSTRACT 5](#_Toc12082)

About all this assignment,we begun our research as a group on Saturday,6th,2025 where our group leader [5](#_Toc32738)

[DEDICATION. 6](#_Toc26199)

[DECLARATION 7](#_Toc22046)

[APPROVAL 8](#_Toc22342)

LIST OF ACRONYMS/ ABBREVIATIONS. [9](#_Toc29826)

CHAPTER ONE: INTRODUCTION [10](#_Toc17444)

1.1 Background. [10](#_Toc750)

1.2 Historical Development [10](#_Toc4720)

• Initial Development [10](#_Toc16765)

• Commercial Launch [10](#_Toc6152)

• Expansion and Toolboxes [10](#_Toc13312)

• Modern Enhancements [10](#_Toc24896)

CHAPTER 2: STUDY METHODOLOGY [11](#_Toc30258)

2:1 Introduction. [11](#_Toc16570)

2.2 12 steps involved

Kaggle Dataset Manipulation [12](#_Toc16090)

Extracting the table from the file [12](#_Toc1864)

QUESTION 2. [22](#_Toc28176)

Steps involved. [22](#_Toc8753)

Table to input Group B Student data [22](#_Toc4692)

Input of data [22](#_Toc2697)

# 

# **ACKNOWLEDGEMENT**

First and foremost, we would like to thank the Almighty God for giving us the strength to finish our assignment successfully as group B. We would love to extend our gratitude to all the persons who helped us to make it this far.

Thanks to our lecturer for giving us the opportunity to explore the world of computer programming. Finally, we would like to express our gratitude to all the sources and references that have been in the research of this report

# 

# **ABSTRACT**

# About all this assignment,we begun our research as a group on Saturday,6th,2025 where our group leader

exposed us to various concepts on how to import, extract and feeding in data into MATLAB as per the assignment which consisted of retrieving excel data from Kaggle.com website ,copying variables of each year to tables, converting tables to structural arrays, outputting each variable in to a single work book and generating a MATLAB code that can store each members’ affirmation attributes. We achieved this through division of labor, different members were assigned different tasks in order to ease the work and to save time.

# 

# **DEDICATION.**

We dedicate this report to all the individuals especially Group B members, who have worked hand in hand to see that this report has been completed successfully. To our lecturer Mr. Maseruka Benedicto whose guidance and expertise have been invaluable, your great work and feedback have shaped our understanding.

# 

# **DECLARATION**

This report assignment in concentration on the solution of some numerical problems by use of optimization and social networking optimization.We hereby confirm that the information in this report is out of our own efforts, research and it has never been submitted in any institution for any academic award

# **APPROVAL**

We are presenting this report which has been written and produced under our tireless efforts to our lecture Mr Maseruka benedicto.

COURSE LECTURER

NAME…………………………

SIGNATURE…………………..

DATE………………………………



# 

# **LIST OF ACRONYMS/ ABBREVIATIONS.**

1. GUI - Graphical user interface.
2. MATLAB - Matrix Laboratory.

# 

# **CHAPTER ONE: INTRODUCTION**

## **1.1 Background.**

MATLAB, which stands for matrix laboratory, is a high-performance programming language and environment designed primarily for technical computing. Matlab is also used for numerical computation ,simulation and modeling.Matlab tools and functions make it ideal or data analysis ,visualization and reporting.

## **1.2 Historical Development**

* **Initial Development**: The first version of MATLAB was created in Fortran in the late 1970s as a simple interactive matrix calculator. This early iteration included basic matrix operations and was built on top of two significant mathematical libraries: LINPACK and EISPACK, which were developed for numerical linear algebra and eigenvalue problems, respectively.
* **Commercial Launch**: MATLAB was officially launched as a commercial product in

1984 by MathWorks, a company founded by Moler along with Jack Little and Steve Bangert. This marked the transition from a simple calculator to a comprehensive programming environment. The software was reimplemented in C, enhancing its capabilities with the addition of user-defined functions, toolboxes, and graphical interfaces.

* **Expansion and Toolboxes**: Over the years, MATLAB has expanded significantly. By the late 1980s, it had introduced several specialized toolboxes for various applications, including control systems and signal processing. The introduction of the *Simulink* environment further allowed users to model and simulate dynamic systems graphically.
* **Modern Enhancements**: Recent versions of MATLAB have introduced features like the *Live Editor*, which allows users to create interactive documents that combine code, output, and formatted text. This evolution reflects MATLAB's ongoing adaptation to meet the needs of its diverse user base across academia and industry.

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# **CHAPTER 2: STUDY METHODOLOGY**

## **2:1 Introduction.**

Every group member was given a task to first research and get an idea of Matlab as a course unit. The research concepts were obtained through watching tutorials on U-tube and also consultations from other continuing students especially those in year three and four.

**2.2 steps involved.**

We opened Kaggle.com website from goggle chrome and signed in Kaggle.com and downloaded one excel dataset and ziped it into a folder.we the opened a file and copied it in the link path into MATLAB.

We went to Home tab and clicked on new script to open the editor and saved the script as assignment. And saved it in the directory that is in our MATLAB path or current working directory.

We therefore inserted the required codes respectively and then run as shown below,

QUESTION .1

# **Kaggle Dataset Manipulation**

**Extracting the table from the file**

Athletetable=readtable("athlete\_events.xlsx",'ReadVariableNames',true);

disp(Athletetable);

****ID**** ****Name**** ****Sex**** ****Age**** ****Height**** ****Weight**** ****Team**** ****NOC**** ****Games**** ****Year**** ****Season**** ****City**** ****Sport**** ****Event**** ****Medal****   

  
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40969 {'John Carl Godina' } {'M'} 28 193 129 {'United States' } {'USA'} {'2000 Summer'} 2000 {'Summer'} {'Sydney' } {'Athletics' } {'Athletics Men's Shot Put' } {'Bronze'}  
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41156 {'Margie Goldstein-Engle' } {'F'} 42 154 48 {'United States' } {'USA'} {'2000 Summer'} 2000 {'Summer'} {'Sydney' } {'Equestrianism' } {'Equestrianism Mixed Jumping, Individual' } {'NA' }  
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41391 {'Nataliya Goncharova' } {'F'} 26 170 54 {'Kazakhstan' } {'KAZ'} {'2000 Summer'} 2000 {'Summer'} {'Sydney' } {'Fencing' } {'Fencing Women's epee, Individual' } {'NA' }  
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41395 {'Jozef Gnci' } {'M'} 26 186 81 {'Slovakia' } {'SVK'} {'2000 Summer'} 2000 {'Summer'} {'Sydney' } {'Shooting' } {'Shooting Men's Small-Bore Rifle, Three Positions, 50 metres' } {'NA' }  
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41502 {'Emeterio Gonzlez Silva' } {'M'} 27 183 105 {'Cuba' } {'CUB'} {'2000 Summer'} 2000 {'Summer'} {'Sydney' } {'Athletics' } {'Athletics Men's Javelin Throw' } {'NA' }  
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41563 {'Jovino Gonzlez Comesaa' } {'M'} 24 185 84 {'Spain' } {'ESP'} {'2000 Summer'} 2000 {'Summer'} {'Sydney' } {'Canoeing' } {'Canoeing Men's Kayak Singles, 500 metres' } {'NA' }  
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41661 {'Yoanka Gonzlez Prez' } {'F'} 24 168 59 {'Cuba' } {'CUB'} {'2000 Summer'} 2000 {'Summer'} {'Sydney' } {'Cycling' } {'Cycling Women's Road Race, Individual' } {'NA' }  
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41724 {'Tania Gooley (-Humphry)' } {'F'} 27 177 67 {'Australia-2' } {'AUS'} {'2000 Summer'} 2000 {'Summer'} {'Sydney' } {'Beach Volleyball' } {'Beach Volleyball Women's Beach Volleyball' } {'NA' }  
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41928 {'Valery Leonidovich Goryushev' } {'M'} 27 198 89 {'Russia' } {'RUS'} {'2000 Summer'} 2000 {'Summer'} {'Sydney' } {'Volleyball' } {'Volleyball Men's Volleyball' } {'Silver'}  
41979 {'Marcell Goszleth' } {'M'} 23 180 71 {'Hungary' } {'HUN'} {'2000 Summer'} 2000 {'Summer'} {'Sydney' } {'Sailing' } {'Sailing Men's Two Person Dinghy' } {'NA' }

**CREATING STRUCTURAL ARRAYS FROM TABLE.**

Athlete2=table2struct(Athletetable)

Athlete2 = 81294×1 struct

| **Fields** | **ID** | **Name** | **Sex** | **Age** | **Height** | **Weight** | **Team** | **NOC** | **Games** | **Year** | **Season** | **City** | **Sport** | **Event** | **Medal** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | 40049 | 'Arnoldine Shanta Ghosh (-Broderius)' | 'F' | 25 | 168 | 53 | 'Germany' | 'GER' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Athletics' | 'Athletics Women's 4 x 400 metres Relay' | 'NA' |
| **2** | 40051 | 'Hatem Ghoula' | 'M' | 27 | 179 | 68 | 'Tunisia' | 'TUN' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Athletics' | 'Athletics Men's 20 kilometres Walk' | 'NA' |
| **3** | 40070 | 'Andrea Giaconi' | 'M' | 26 | 183 | 69 | 'Italy' | 'ITA' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Athletics' | 'Athletics Men's 110 metres Hurdles' | 'NA' |
| **4** | 40074 | 'Maria Cristina Giai Pron' | 'F' | 26 | 168 | 60 | 'Italy' | 'ITA' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Canoeing' | 'Canoeing Women's Kayak Singles, Slalom' | 'NA' |
| **5** | 40089 | 'Mauro Gianetti' | 'M' | 36 | 175 | 62 | 'Switzerland' | 'SUI' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Cycling' | 'Cycling Men's Road Race, Individual' | 'NA' |
| **6** | 40090 | 'Andrea Giani' | 'M' | 30 | 196 | 97 | 'Italy' | 'ITA' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Volleyball' | 'Volleyball Men's Volleyball' | 'Bronze' |
| **7** | 40101 | 'Georgios Giannelis' | 'M' | 29 | 180 | 65 | 'Greece' | 'GRE' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Athletics' | 'Athletics Men's 3,000 metres Steeplechase' | 'NA' |
| **8** | 40104 | 'Spyridon "Spyros" Gianniotis' | 'M' | 20 | 185 | 78 | 'Greece' | 'GRE' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Swimming' | 'Swimming Men's 400 metres Freestyle' | 'NA' |
| **9** | 40104 | 'Spyridon "Spyros" Gianniotis' | 'M' | 20 | 185 | 78 | 'Greece' | 'GRE' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Swimming' | 'Swimming Men's 1,500 metres Freestyle' | 'NA' |
| **10** | 40104 | 'Spyridon "Spyros" Gianniotis' | 'M' | 20 | 185 | 78 | 'Greece' | 'GRE' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Swimming' | 'Swimming Men's 4 x 200 metres Freestyle Relay' | 'NA' |
| **11** | 40111 | 'Antonios Giannoulas' | 'M' | 23 | 182 | 75 | 'Greece' | 'GRE' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Boxing' | 'Boxing Men's Middleweight' | 'NA' |
| **12** | 40131 | 'Gilberto Amauri "Giba" de Godoy Filho' | 'M' | 23 | 192 | 85 | 'Brazil' | 'BRA' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Volleyball' | 'Volleyball Men's Volleyball' | 'NA' |
| **13** | 40148 | 'Marie-Jose Gibeau-Ouimet' | 'F' | 27 | 165 | 67 | 'Canada' | 'CAN' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Canoeing' | 'Canoeing Women's Kayak Fours, 500 metres' | 'NA' |
| **14** | 40155 | 'Giuseppe Gibilisco' | 'M' | 21 | 184 | 78 | 'Italy' | 'ITA' | '2000 Summer' | 2000 | 'Summer' | 'Sydney' | 'Athletics' | 'Athletics Men's Pole Vault' | 'NA' |
| **⋮** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Athlete3=struct2table(Athlete2);

writetable(Athlete3,'athlete\_events.xlsx','Sheet','SET1');

Athlete2000=Athletetable(Athletetable.Year==2000,:);

Athlete2002=Athletetable(Athletetable.Year==2002,:);

Athlete2004=Athletetable(Athletetable.Year==2004,:);

Athlete2006=Athletetable(Athletetable.Year==2006,:);

Athlete2008=Athletetable(Athletetable.Year==2008,:);

Athlete2010=Athletetable(Athletetable.Year==2010,:);

Athlete2012=Athletetable(Athletetable.Year==2012,:);

Athlete2014=Athletetable(Athletetable.Year==2014,:);

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AthleteA00=table2struct(Athlete2000);

AthleteA02=table2struct(Athlete2002);

AthleteA04=table2struct(Athlete2004);

AthleteA06=table2struct(Athlete2006);

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AthleteA12=table2struct(Athlete2012);

AthleteA14=table2struct(Athlete2014);

AthleteA16=table2struct(Athlete2016);

AthleteT00=struct2table(AthleteA00);

AthleteT02=struct2table(AthleteA02);

AthleteT04=struct2table(AthleteA04);

AthleteT06=struct2table(AthleteA06);

AthleteT08=struct2table(AthleteA08);

AthleteT10=struct2table(AthleteA10);

AthleteT12=struct2table(AthleteA12);

AthleteT14=struct2table(AthleteA14);

AthleteT16=struct2table(AthleteA16);

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writetable(AthleteT12,'athlete\_events.xlsx','Sheet','2012','writevariable', true);

writetable(AthleteT14,'athlete\_events.xlsx','Sheet','2014','writevariable', true);

writetable(AthleteT16,'athlete\_events.xlsx','Sheet','2016','writevariable', true);

# **QUESTION 2.**

## **Steps involved.**

We opened and launched on our pcs and clicked on new script to open editor

We acquired each member’s affirmative information and generated a MATLAB code that can store each member’s attributes like age, date of birth, district etc.

We the run the code in MATLAB as shown below.

### **Table to input Group B Student data**

### **Input of data**

name = ["Rubangakene Gerald Oyet"; "Alinda Masika Rolphine"; "Achom Peace"; "Maate Phillemon"; "Adupa George Richard"; "Asimo Martha"; "Ayebale Ellias"; "Komuhangi Agatha"; "Katunguka Emmanuel"; "Kakulu Alfred"; "Tusiime Junior Yusuf"; "Amongin Mary Lucy"; "Nantaba Patricia"; "Apuda Lindi Cecilia"; "Amongin Mirriam"; "Kagoda Enock"; "Kakonya Gerald"; "Sikoria Agrrey Joshua"];

age = [23; 22; 25; 22; 23; 25; 16; 20; 25; 22; 23; 22; 24; 21; 21; 26; 23; 22];

tribe = ["Acholi"; "Mukonzo"; "Itesot"; "Mukonzo"; "Itesot"; "Samia"; "Mukiga"; "Munyakole"; "Munyankole"; "Munyoro"; "Itesot"; "Muganda"; "Itesot"; "Itesot"; "Muganda"; "Mukonzo"; "Mukonzo"; "Sebiny"];

home\_district = ["Gulu"; "Kasese"; "Pallisa"; "Kampala"; "Lira"; "Kumi"; "Soroti"; "Rubanda"; "Mpigi"; "Ntungamo"; "Wakiso"; "Hoima"; "Ngora"; "Mukono"; "Kataki"; "Kumi"; "Kasese"; "Kabedamaido"];

interest = ["Bakery"; "Instruments"; "Business"; "Agriculture"; "Music"; "Travelling"; "Kaboozi"; "Singing"; "Travelling"; "Hand ball"; "Patriotism"; "Football"; "Volley ball"; "Crochet"; "Journalism"; "Cooking"; "Football"; "singing"];

course = ["WAR2"; "APE2"; "WAR2"; "AMI2"; "WAR2"; "MEB2"; "AMI2"; "AMI2"; "WAR2"; "MEB2"; "WAR2"; "MEB2"; "WAR2"; "WAR2"; "WAR2"; "WAR2"; "PTI"; "WAR2"];

village = ["Lacor"; "Ibanda"; "Gogonyo"; "Kyanduli"; "Omolokonyo"; "Agirigiro"; "Karengyere"; "Kalagala"; "Nabgingi"; "Acepet"; "Kityedo"; "Nyamongo"; "Mukono"; "Katakwi"; "Kamacha"; "Busitema"; "Maliba"; "Bundijo"];

religion = ["Born again"; "Anglican"; "Othodox"; "Catholic"; "Phanero"; "Islam"; "Pegan"; "Born again"; "Catholic"; "Islam"; "Phanero"; "Orthodox"; "Catholic"; "SDA"; "Born again"; "Catholic"; "SDA"; "Anglican"];

facial\_representation = {imread("GERALD.jpg"); imread("ROLPHINE.jpg"); imread("PEACE.jpg"); imread("PHILLEMON.jpg"); imread("GEORGE.jpg"); imread("MARTHA.jpg"); imread("ELLIAS.jpg"); imread("AGATHA.jpg"); imread("EMMA.jpg");

imread("ALFRED.jpg"); imread("YUSUF.jpg"); imread("LUCY.jpg"); imread("PATRICIA.jpg"); imread("LINDI.jpg"); imread("MICOH.jpg"); imread("ENOCH.jpg"); imread("KAKONYA.jpg"); imread("AGGREY.jpg")};

GroupB=table(name,age,tribe,home\_district,interest,course,village,religion,facial\_representation);

save("Studentsdata","GroupB");

disp(GroupB);

****name**** ****age**** ****tribe**** ****home\_district**** ****interest**** ****course**** ****village**** ****religion**** ****facial\_representation****  
****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**** ****\_\_\_**** ****\_\_\_\_\_\_\_\_\_\_\_\_**** ****\_\_\_\_\_\_\_\_\_\_\_\_\_**** ****\_\_\_\_\_\_\_\_\_\_\_\_\_**** ****\_\_\_\_\_\_**** ****\_\_\_\_\_\_\_\_\_\_\_\_**** ****\_\_\_\_\_\_\_\_\_\_\_\_**** ****\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****  
  
"Rubangakene Gerald Oyet" 23 "Acholi" "Gulu" "Bakery" "WAR2" "Lacor" "Born again" {3264×2448×3 uint8}   
"Alinda Masika Rolphine" 22 "Mukonzo" "Kasese" "Instruments" "APE2" "Ibanda" "Anglican" {1080×541×3 uint8}   
"Achom Peace" 25 "Itesot" "Pallisa" "Business" "WAR2" "Gogonyo" "Othodox" {1008×756×3 uint8}   
"Maate Phillemon" 22 "Mukonzo" "Kampala" "Agriculture" "AMI2" "Kyanduli" "Catholic" { 960×480×3 uint8}   
"Adupa George Richard" 23 "Itesot" "Lira" "Music" "WAR2" "Omolokonyo" "Phanero" {1008×567×3 uint8}   
"Asimo Martha" 25 "Samia" "Kumi" "Travelling" "MEB2" "Agirigiro" "Islam" { 984×432×3 uint8}   
"Ayebale Ellias" 16 "Mukiga" "Soroti" "Kaboozi" "AMI2" "Karengyere" "Pegan" {1080×720×3 uint8}   
"Komuhangi Agatha" 20 "Munyakole" "Rubanda" "Singing" "AMI2" "Kalagala" "Born again" { 555×446×3 uint8}   
"Katunguka Emmanuel" 25 "Munyankole" "Mpigi" "Travelling" "WAR2" "Nabgingi" "Catholic" {1080×664×3 uint8}   
"Kakulu Alfred" 22 "Munyoro" "Ntungamo" "Hand ball" "MEB2" "Acepet" "Islam" {1080×810×3 uint8}   
"Tusiime Junior Yusuf" 23 "Itesot" "Wakiso" "Patriotism" "WAR2" "Kityedo" "Phanero" { 955×721×3 uint8}   
"Amongin Mary Lucy" 22 "Muganda" "Hoima" "Football" "MEB2" "Nyamongo" "Orthodox" {1020×574×3 uint8}   
"Nantaba Patricia" 24 "Itesot" "Ngora" "Volley ball" "WAR2" "Mukono" "Catholic" {2560×1920×3 uint8}   
"Apuda Lindi Cecilia" 21 "Itesot" "Mukono" "Crochet" "WAR2" "Katakwi" "SDA" { 601×601×3 uint8}   
"Amongin Mirriam" 21 "Muganda" "Kataki" "Journalism" "WAR2" "Kamacha" "Born again" { 855×1080×3 uint8}   
"Kagoda Enock" 26 "Mukonzo" "Kumi" "Cooking" "WAR2" "Busitema" "Catholic" {1280×720×3 uint8}   
"Kakonya Gerald" 23 "Mukonzo" "Kasese" "Football" "PTI" "Maliba" "SDA" {1000×750×3 uint8}   
"Sikoria Agrrey Joshua" 22 "Sebiny" "Kabedamaido" "singing" "WAR2" "Bundijo" "Anglican" {1080×810×3 uint8}

CONCLUSION

The assignment was successful since there was maximum cooperation among group B members. It exposed us to the different computation skills on how to import, retrieve and to compile large sums of data using MATLAB. It also exposed us to use different websites like Kaggle.com where we obtained our excel dataset for number one

REFERENCES

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2. Introduction programming for engineers .By WILLIAM J.PALM III.
3. Essentials of matlab programming. BY STEPHEN J. CHAPMAN.