

Business Statistics (QUA 207)

Second Term (2020/2021) (1442H)

Course description

The course basically deals with inferential statistics, which will be the focus of the course. The topics covered in the course include Central limit theorem and sampling distribution; statistical inference involving means, proportions; ANOVA; Chi-Square Tests; and simple regression.

Course objectives

The main objective of this course is to provide basic knowledge about inferential statistics for the purpose of making effective business decisions.

The objectives of the course can be stated as follows:

- Understand the concept of the sampling distribution.
- Understand the importance of the Central Limit Theorem.
- Construct and interpret confidence interval estimates for sample statistics.
- Compute probabilities related to sample statistics.
- Determine the sample size necessary to develop confidence interval estimate for a parameter.
- Learn how to use hypothesis testing to test parameters.
- Compare the parameters of two populations.
- Compare the means of two and more than two populations.
- Learn when to use the chi-square test for contingency tables.
- Learn to use regression analysis and evaluate its assumptions.
- Use software programs (such as SPSS or Microsoft Excel)

Required Materials *(More Information on Page: 5)*

David M. Levine, Kathryn A. Szabat, David F. Stephan: **Business Statistics: A First Course, 7th Global Edition**, Pearson.

Textbook ISBN-13: 978-1-292-09593-6

MyLab Statistics: You are required to purchase access to MyLab Statistics, if you fail to do so you will lose up to 20% of total course credit.

Required Chapters: 7, 8, 9, 10, 11, and 12

Study Plan

- In MyLab Statistics, each student will complete an individualized Study Plan that reflects their progress through the course material.
- Each **Section/ Chapter** of the textbook covered in class is associated with up to 4-6 Objectives, each objective is worth one Mastery Point.
- Each Objective may be practiced by using the Practice button in the Study Plan. *You will be graded based on the number of mastery points earned and **you can earn mastery points by successfully taking a Quiz Me**.*
- If you are having trouble with a particular question, while you are in the problem, you may want to click Help Me Solve This, View an Example, or Textbook Pages.
- If you still need help, please post a question on the Discussion Forum for the assigned Chapter. Remember, working study Plan problems is the best preparation for the exams.

Homework Assignment (10%)

- The assignments are drawn from the problems at the end of each textbook chapter and practice problems. You should correctly answer each question **prior to the posted due date**.
- Homework problems that are attempted and submitted **will NOT be accepted**.
- Make sure you perform well as possible on the Homework!
- **Evaluation of the homework will be based on the best 5 out of 6.**

Homework Schedule (Male & Female)

Homework	Start			End (Due Dates)		
Ch7	Thursday	21/01/2021	6:00pm	Saturday	13/02/2021	11:59pm
Ch8		31/01/2021			20/02/2021	
Ch9(1)		18/02/2021			6/03/2021	
Ch9(2)		04/03/2021			20/03/2021	
Ch10		18/03/2021			10/04/2021	
Ch11		08/04/2021			24/04/2021	
Ch12		11/04/2021			24/04/2021	

Quizzes (10%)

- Quizzes are given based on the timetable below “Quizzes Schedule”. Students are expected to work on quizzes individually.
- These quizzes are provided as an aid for preparing for the midterm and the final exam.
- The quiz will contain 8-15 questions and **you will only have 30 minutes to take the quiz**.
- The instructor reserves the right to utilize whatever format (true-false, multiple choice, fill in the blank, essay/short answer) or combination of formats he/she deems necessary and in the students’ best interest.
- There is no make-up for missed quizzes, you only have one attempt and **your overall quizzes evaluation will be based on the best 4 out of 6 quizzes**.

Quizzes Schedule (Male & Female)

Quizzes	Day	Date	Start	End
Ch7	Sunday	14/02/2021	8:00pm	10:00pm
Ch8	Sunday	21/02/2021	8:00pm	10:00pm
Ch9	Sunday	28/02/2021	8:00pm	10:00pm
Ch10	Saturday	27/03/2021	8:00pm	10:00pm
Ch11	Sunday	11/04/2021	8:00pm	10:00pm
Ch12	Sunday	18/04/2021	8:00pm	10:00pm

Exams

- There shall be **three** examinations given during this course, **two midterms and a final examination**.
- The 1st midterm is the 8th week—and the 2nd is the 11th week of the term.
- The instructor reserves the right to utilize whatever format (true-false, multiple choice, fill in the blank, essay/short answer) or combination of formats he/she deems necessary and in the students’ best interest.
- There is no make-up for missed Midterm exams and Final exams. Students are expected to take the exams during the week they are given.
- Remember, you only have one attempt and all midterm/final exams are closed book!

Male section

Exam	Day	Date	From	To	Points
First Midterm	Sunday	07/03/2021	12:00pm	01:30pm	20%
Second Midterm	Sunday	28/03/2021	12:00pm	01:30pm	20%
Final Exam	Based on University Schedule				40%

Female section

Exam	Day	Date	From	To	Points
First Midterm	Sunday	07/03/2021	12:00pm	01:30pm	20%
Second Midterm	Sunday	28/03/2021	12:00pm	01:30pm	20%
Final Exam	Based on University Schedule				40%

Evaluation

Assessment Task	Proportion of Assessment
Homework Assignment	10%
Quizzes	10%
First Midterm Exam	20%
Second Midterm Exam	20%
Final Exam	40%
Total	100%

Attendance Policy

- Regular and punctual attendance at all scheduled classes is expected from all students.
- Students may be denied entry to the final exam **if they miss more than 25% of classes.**

**This syllabus is subject to change by the Quantitative Analysis Department only at any time. Changes, if any, will be announced in class. Students will be held responsible for all changes.*

Course outline

• **Content of the Course and lectures Plan**

Chapters	Contents	Weeks	Exams
		Dates	
Ch. 7 Sampling Distributions	7.1 Sampling Distribution 7.2 Sampling Distribution of the Mean 7.3 Sampling Distribution of the Proportion.	2 Weeks (17Jan.- 28Jan.)	Covered by First midterm exam & Final exam
Ch. 8 Confidence Interval Estimation.	8.1 Confidence Interval for the Mean (σ Known) 8.2 Confidence Interval for the Mean (σ Unknown) 8.3 Confidence Interval for the Proportion 8.4 Determining Sample Size	31 Jan.-11 Feb.)	
Ch. 9 Fundamentals of Hypothesis Testing: One-Sample Tests	9.1 Fundamentals of Hypothesis-Testing Methodology 9.2 <i>t</i> Test of Hypothesis for the mean (σ Unknown)	2 Weeks (14 Feb.- 25Feb.)	
First Midterm (20 points) 07/03/2021			
Ch. 9 Fundamentals of Hypothesis Testing: One-Sample Tests	9.3 One-Tail Tests 9.4 Z Test of Hypothesis for the Proportion	1Week (28 Feb.- 4March.)	Covered by Second midterm exam & Final exam
Ch. 10 Two-Sample Tests and One-Way ANOVA	10.1 Comparing the Means of Two Independent Populations (352 omitted) 10.2 Comparing the Means of Two Related Populations Paired <i>t</i> Test. 10.3 Comparing the Proportions of Two Independent Populations. 10.4 F Test for the Ratio of Two Variances. 10.5 One-Way ANOVA.(381 to 386 omitted)	4 Weeks (7 March.- 1April.)	
Second Midterm (20 points) 28/03/2021			
Ch. 11 Chi-Square Tests	11.1 Chi-Square Test for the Difference Between Two Proportions. 11.2 Chi-Square Test for Differences Among More Than Two Proportions. 11.3 Chi—Square Test of Independence.	1 Week (4 April- 8April)	Covered by Final exam
Ch. 12 Simple Linear Regression	12.1 Types of Regression Models. 12.2 Determining the Simple Linear Equation. 12.3 Measures of Variation. 12.7 Inferences About the Slope and Correlation Coefficient..(464 omitted)	2 Weeks (11 April.- 22 April.)	
Final Exam (40 points) Based on University Schedule			

Required Materials

- **Title:** Business Statistics: A First Course, 7th Global Edition, Pearson
- **Authors:** Levine, Szabat, and Stephan
- **Textbook ISBN-13:** 978-1-292-09593-6
 - **Required Chapters:** 7, 8, 9, 10, 11, and 12

MyLab Statistics

- In order to be able to work on the Study Plan, Homework, Quiz; the student **MUST** purchase MyLab Statistics Access Code (**which will INCULDE the eTextbook**), if you fail to do so you will lose up to 20% of total course credit.
- MyLab Statistics is a platform that is connected to the student's LMS to enrichen the learning experience. It provides the student with access to the eTextbook, Example, and other multimedia material.

Learning Management System Support (Blackboard Support)

- **Webpage:** <https://daleel.ksu.edu.sa/ar>
- **Tel#:** 00966 11 4677297
- **Tel#:** 00966 11 4675557
- **Email:** itsupport@ksu.edu.sa

How to purchase the Book\ eBook\ MyLab Statistics Code

- **Student Fund Market** webpage *direct link*: https://salla.sa/student_fund/my-lab-statistics-a-first-course-global-7th-edition/p2130282455
- **Student Fund Market** webpage: https://salla.sa/student_fund
- **Student Fund Support Tel#**: [+966540428743](tel:+966540428743)

The screenshot shows the Student Fund Market website interface. At the top, there is a search bar and a navigation menu with options like 'سلة المشتريات' (Shopping Cart) and 'ابحث عما تريد ..' (Search for what you want ..). The main content area displays the product title 'my lab statistics, a first course. global 7th edition. access code.' with a price of 120 SAR. It also features a quantity selector set to 1, a university ID field, and a 'Buy' button. A large image of a library is shown on the right, with a 'مركز بيع الكتب' (Book Center) overlay. The footer includes social media links and contact information for SFKSU.

Activate your MyLab Statistics Code

In order to activate Code, You have to connect through your LMS.KSU.EDU.SA page and Select your section QUA_207, following these steps:

Step 1:

USERNAME
439103339

PASSWORD

Login

Step 2:

ابحث عن مادة
QUA_207

Tools

- Calendar
- My Grades
- Send Email
- Personal Information
- Goals
- Application Authorization

My Announcements

No Institution Announcements have been posted in the last 7 days.

No Course or Organization Announcements have been posted in the last 7 days.

Download Blackboard's Student App Today

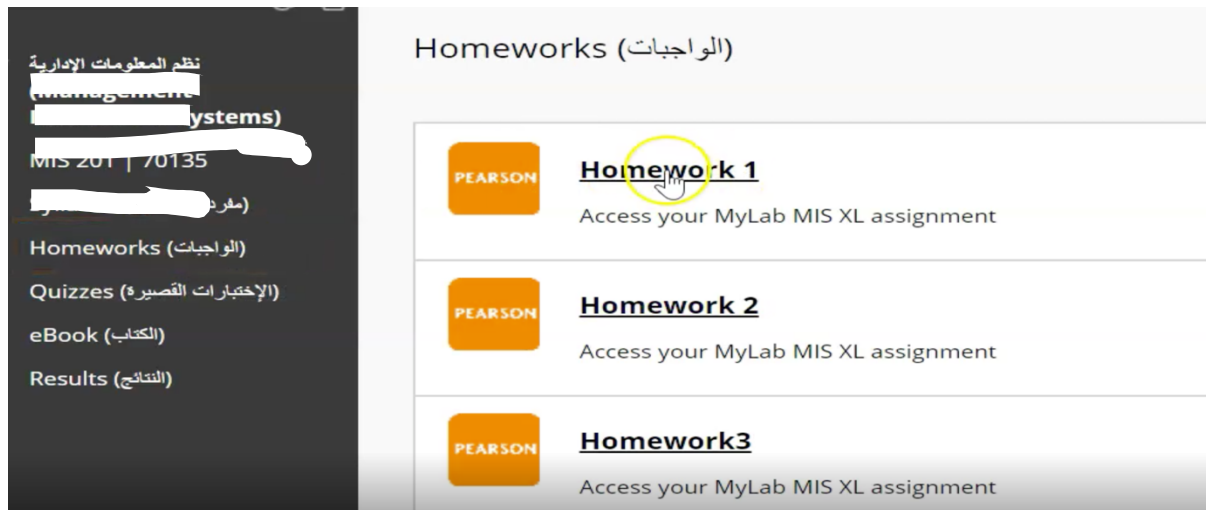
Access grades, course content, and more - right from the Bb Student app on your phone. Available today on iOS, Android, or Windows:

My Courses

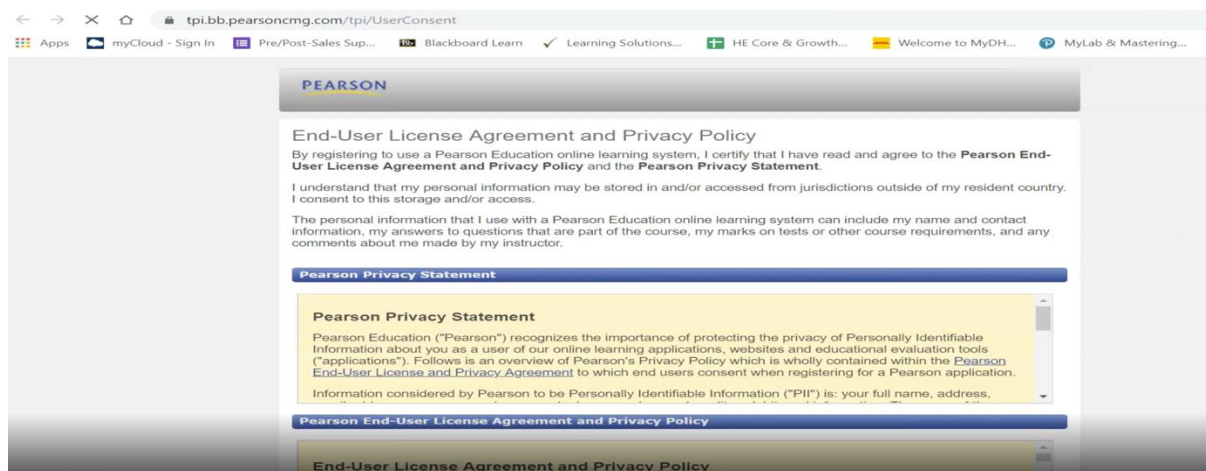
Courses where you are: Student

- ARAB101_43495_1_411: المهارات اللغوية (Labi)
- ECON102_6349_1_411: مبادئ الاقتصاد الكلي (Macroeconomics)
- MKT_201_42812_1_411: مبادئ التسويق (Principles of Marketing)
- ACCT201_31387_1_411: مبادئ المحاسبة والتقارير المالي (Principles of Accounting & Financial Reporting)
- ACCT201_31386_1_411: مبادئ المحاسبة والتقارير المالي (Principles of Accounting & Financial Reporting)
- MIS_201_70136_1_411: نظم المعلومات الإدارية (Management Information Systems)
- MIS_201_70135_1_411: نظم المعلومات الإدارية (Management Information Systems)
- MIS_201_70137_1_411: نظم المعلومات الإدارية (Management Information Systems)

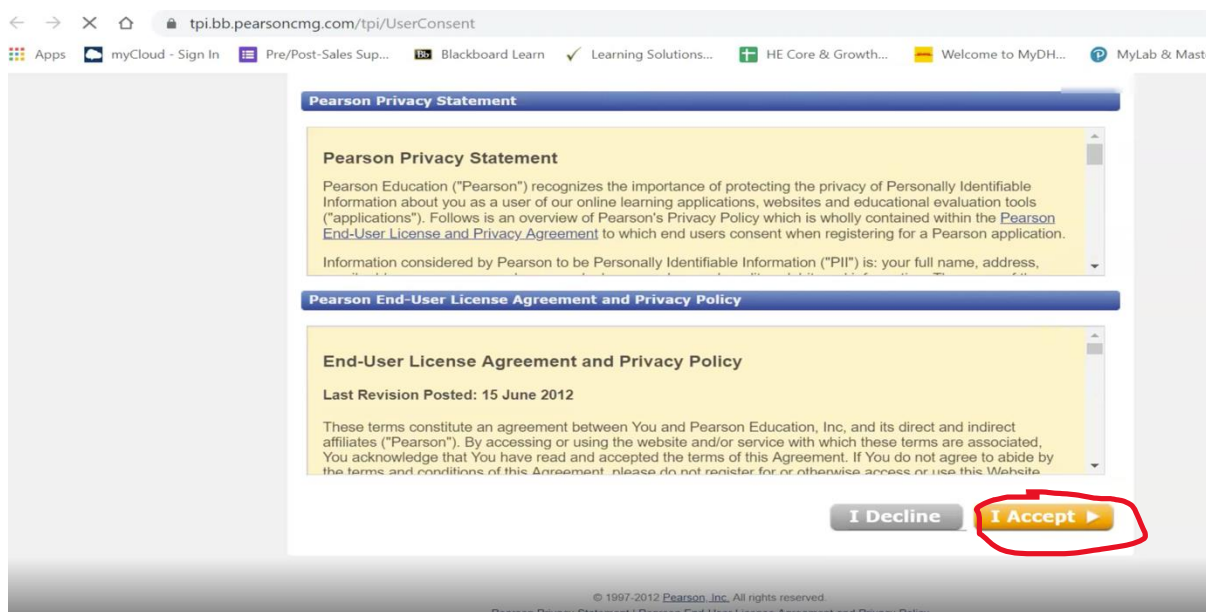
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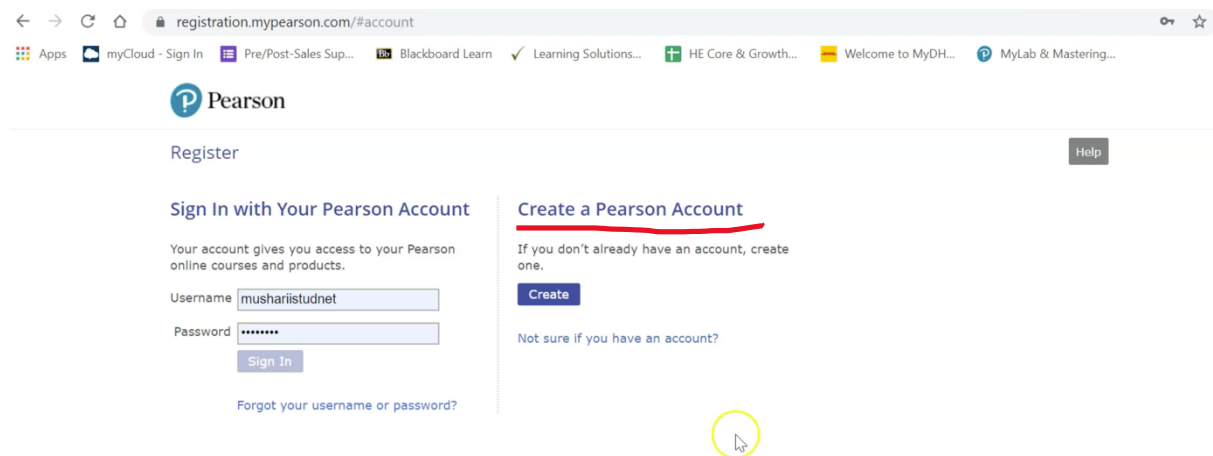
Step 4:



Step 5:



Step 6:



registration.myperson.com/#account

Apps myCloud - Sign In Pre/Post-Sales Sup... Blackboard Learn Learning Solutions... HE Core & Growth... Welcome to MyDH... MyLab & Mastering...

Pearson

Register Help

Sign In with Your Pearson Account

Your account gives you access to your Pearson online courses and products.

Username mushariistudnet

Password *****

[Sign In](#)

[Forgot your username or password?](#)

Create a Pearson Account

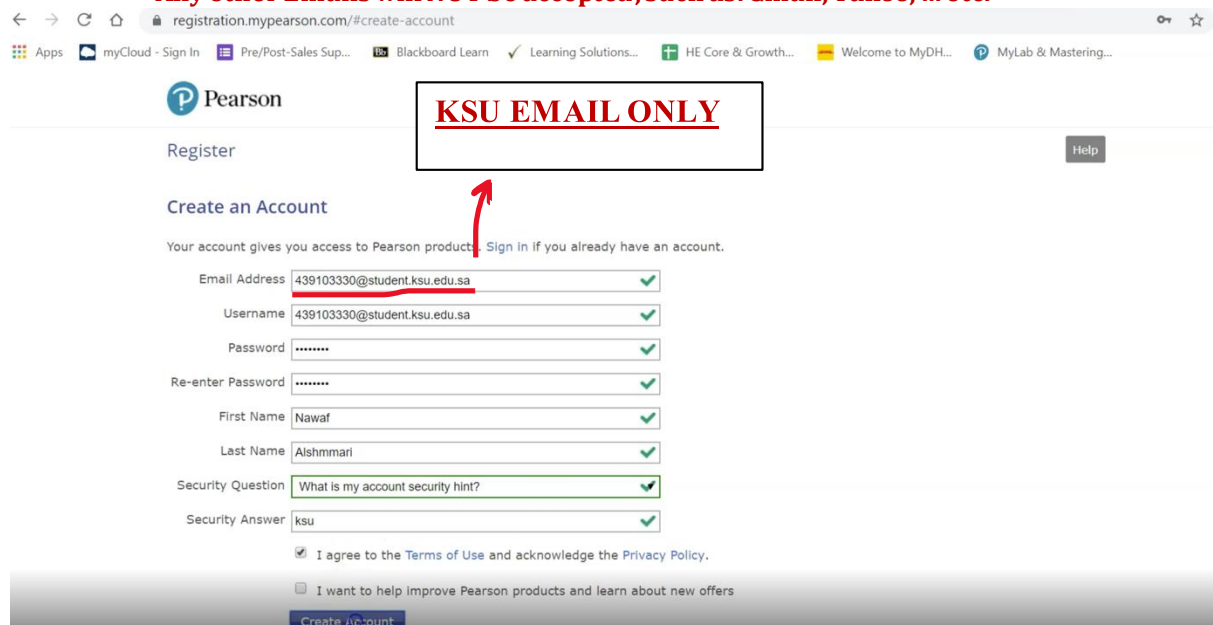
If you don't already have an account, create one.

[Create](#)

Not sure if you have an account?

Step 7:

- **Use your KSU Student Email.**
- **Any other Emails will NOT be accepted; such as: Gmail, Yahoo, ... etc.**



registration.myperson.com/#create-account

Apps myCloud - Sign In Pre/Post-Sales Sup... Blackboard Learn Learning Solutions... HE Core & Growth... Welcome to MyDH... MyLab & Mastering...

Pearson

Register Help

Create an Account

Your account gives you access to Pearson products. [Sign In](#) if you already have an account.

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Username 439103330@student.ksu.edu.sa ✓

Password ***** ✓

Re-enter Password ***** ✓

First Name Nawaf ✓

Last Name Alshmmari ✓

Security Question What is my account security hint? ✓

Security Answer ksu ✓

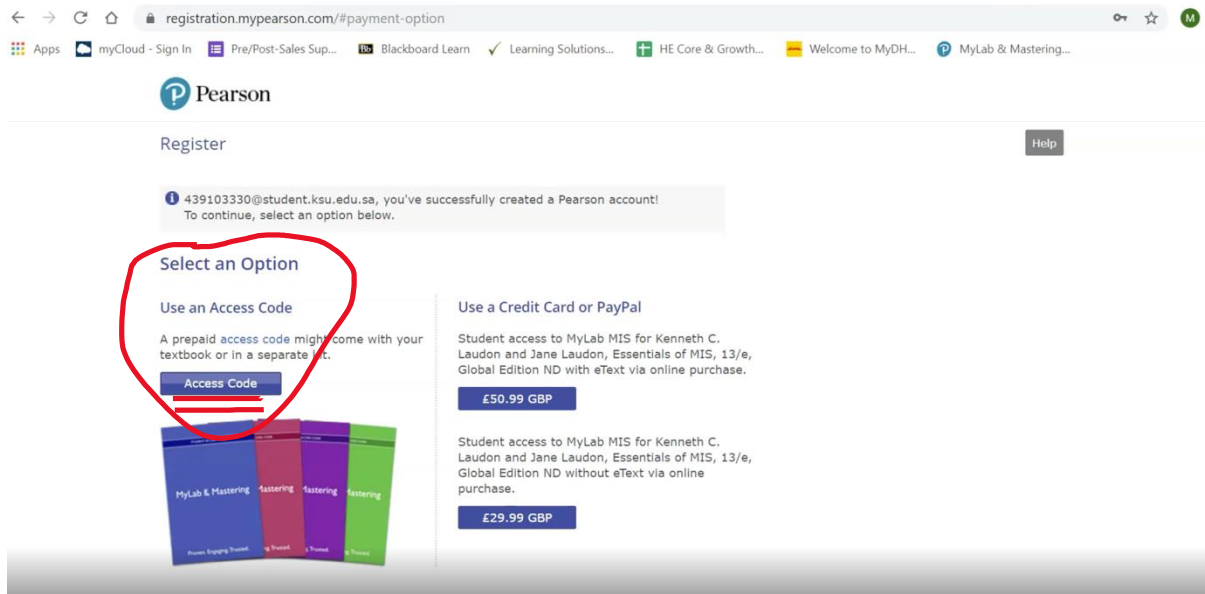
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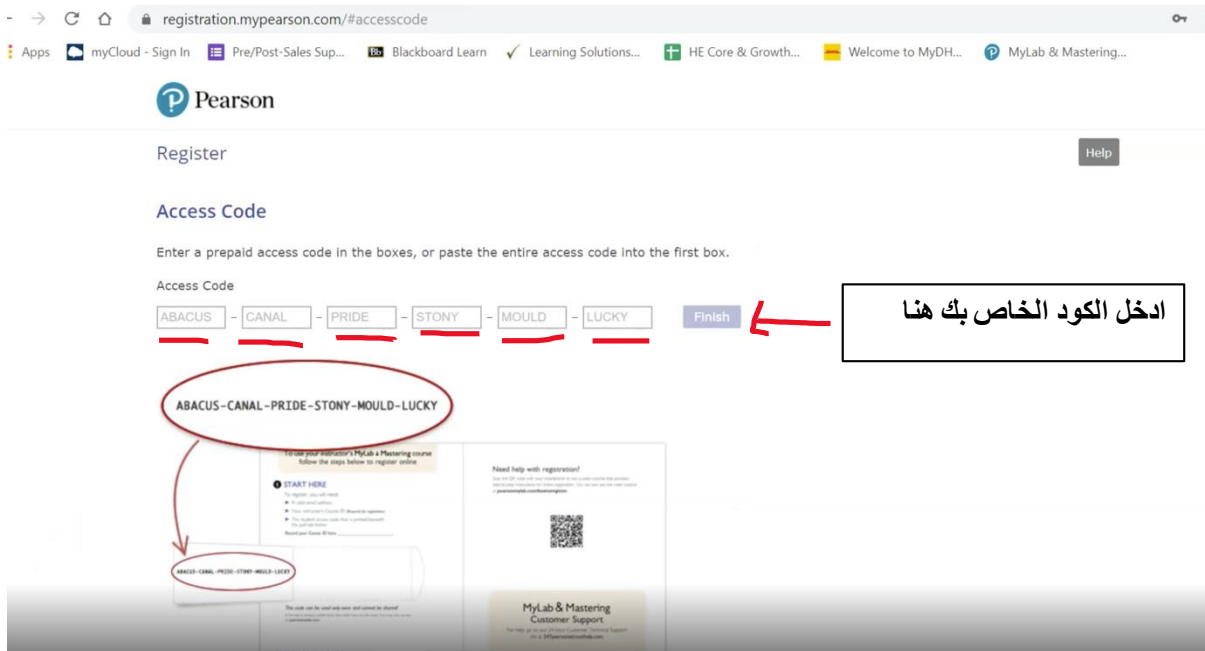
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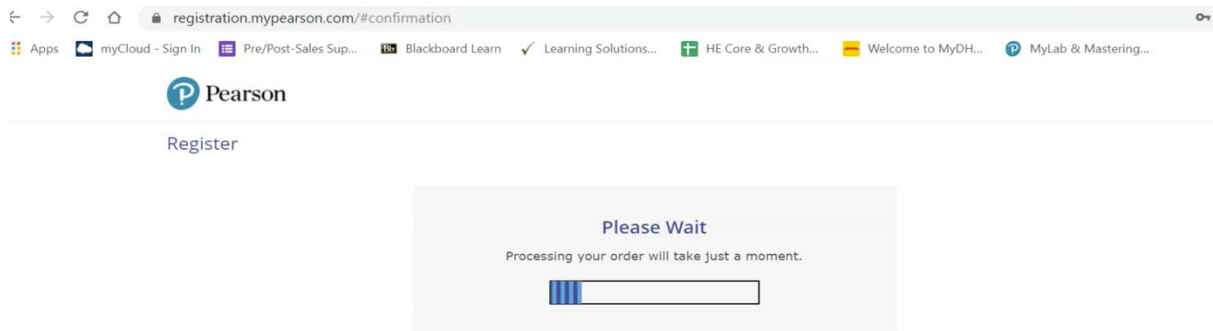
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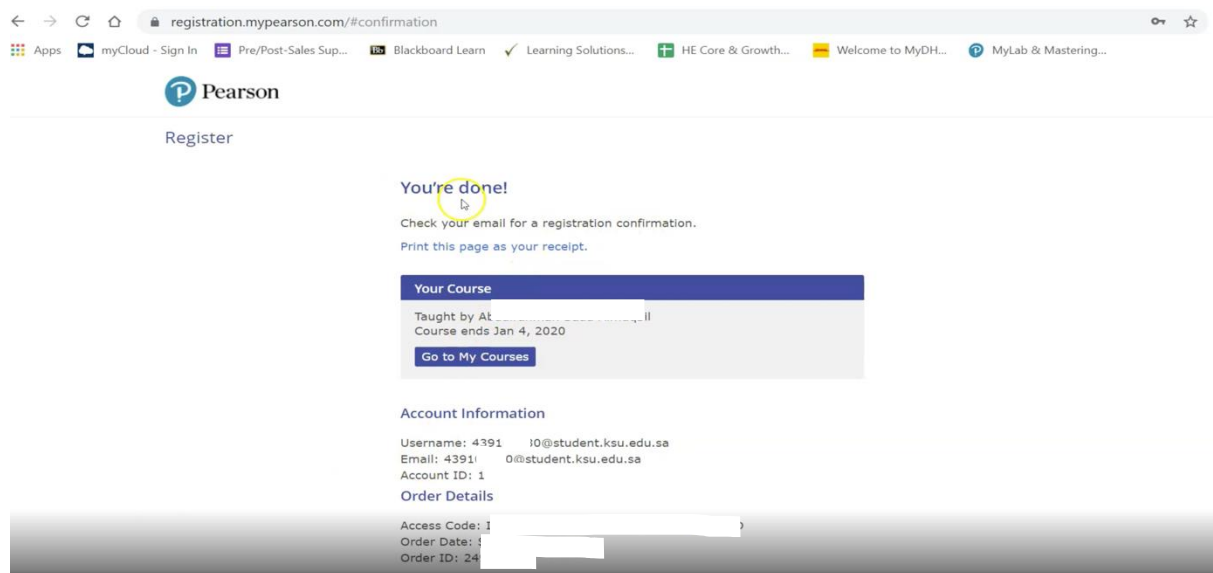
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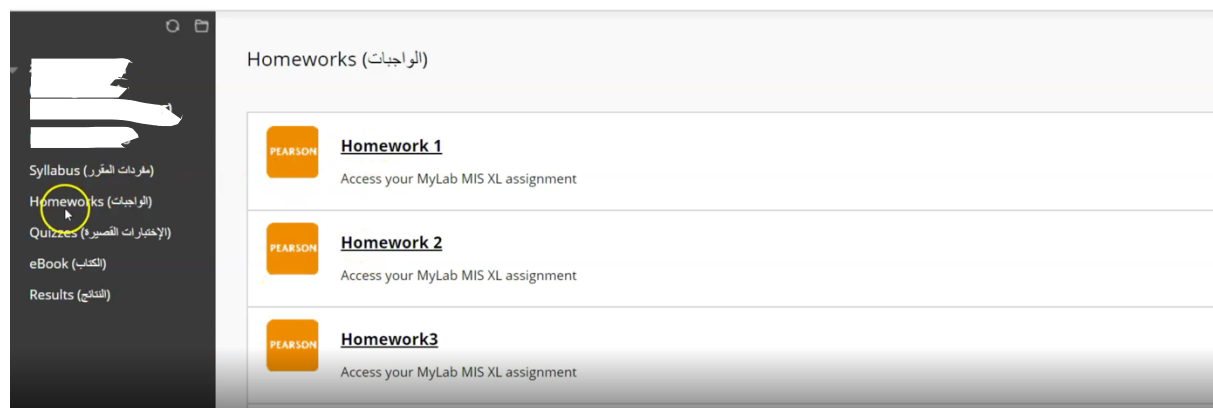
Step 10:



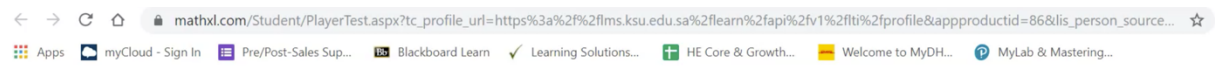
Step 11:



Step 12:



Step 13:



Prerequisite Warning

Before you can work on any remaining attempts on this assignment you must do the following:

- You must earn at least 5 of 5 MP on the Homework 2.

OK

Practice Exercises Information