	<p style="text-align: center;">Hope Foundation's Finolex Academy of Management and Technology, Ratnagiri Department of Information Technology</p>		
Subject name	Business Intelligence Lab		Subject Code: ITL602
Class	TE IT	Semester – VI (CBCGS)	Academic year: 2018-19 (FH 2019)
Name of Student			QUIZ Score :
Roll No		Assignment/Experiment No:	08
Title:	Detailed study of BI tool – Pentaho (paper Assignment)		

1. Course objectives applicable: LO5
2. Course outcomes applicable: LO5
3. Learning Objectives: <ol style="list-style-type: none"> 1. To study the uses of Pentaho (Open source tool) 2. To study the data mining operations
4. Practical applications of the assignment/experiment: Data mining
5. Prerequisites: <ol style="list-style-type: none"> 1. Basic data mining concepts. 2. Use of open source tools
6. Hardware Requirements: <ol style="list-style-type: none"> 1. PC with minimum 2 GB RAM 7. Software Requirements: <ol style="list-style-type: none"> 1. Windows / Linux 2.

8. Viva Questions (if any): (Online Quiz will be taken separately batch-wise) <ol style="list-style-type: none"> 1. What is Pentaho? 2. What are the IoT services provided by Pentaho? 3. What are the different products by Pentaho? 4. What are the cloud services by Pentaho?

9. Experiment/Assignment Evaluation:				
Sr. No.	Parameters		Marks obtained	Out of
1	Technical Understanding (Assessment may be done based on Q & A <u>or</u> any other relevant method.)			6
2	Neatness/presentation			2
3	Punctuality			2
Date of performance (DOP)		Total marks obtained		10
Date of checking (DOC)		Signature of teacher		

10. Theory:

Pentaho is a business intelligence (BI) software that provides data integration, OLAP services, reporting, information dashboards, data mining and extract, transform, load (ETL) capabilities. It is headquartered in Orlando, Florida. Pentaho was acquired by Hitachi Data Systems in 2015. On September 19, 2017, Pentaho became part of Hitachi Vantara, a new company that unifies the operations of Pentaho, Hitachi Data Systems and Hitachi Insight Group.

Pentaho offers an enterprise and community edition of the software. The enterprise software is obtained through an annual subscription and contains extra features and support not found in the community edition. Pentaho's core offering is frequently enhanced by add-on products, usually in the form of plug-ins, from the company and the broader community of users.

- Data Fuels Digital Transformation

GET AN ANALYST'S VIEW OF HOW DATA CREATES VALUE AND CHANGES THE ROLE OF IOT

1. Data is the lynchpin to realizing value in the era of digital transformation.
2. Improving productivity and efficiency drives development of an IoT strategy.
3. It is critical to manage, protect and use data to benefit from IoT and AI

- Achieve Better Outcomes With Your IoT Initiatives

DRIVE IOT SOLUTIONS FASTER WITH OUR EXPERTISE TO UNIFY THE PHYSICAL AND DIGITAL WORLDS

1. Build your IoT success on a technology foundation of 100+ years developing operational technologies and 50+ years of IT innovation and solutions.
2. Speed the path to solution creation with the Lumada IoT Platform – intelligent, composable flexible software with AI, analytics and asset avatars.
3. Enhance operational productivity, quality, maintenance, safety, consumables and more with end-to-end solutions co-created to meet your organizational needs

- Faster ROI with Proven Big Data Use Cases

ACCELERATE ACTIONABLE INSIGHTS AND TIME TO VALUE WITH BLENDED DATA AND MODERN ARCHITECTURES

1. Deliver relevant data and analytics value using modern big data technologies such as Hadoop and Spark.

2. Get ahead of the competition with big data blueprints based on our most successful implementations – from reference architectures to best practices.
3. Improve the customer experience, drive incremental revenue and increase loyalty with Pentaho and Unified Compute Platform hyper converged data lake solutions.

- Do You Have a Data Strategy for Your Digital Transformation?

ABANDON TRADITIONAL I.T. THINKING AND FOCUS ON ENABLING DIGITAL OUTCOMES

1. Achieve cost efficiency and accelerate time to market by rethinking operations and processes and ensuring that the data your organization needs is available, accessible and actionable when and how they need it.
2. Increase customer loyalty and grow revenue through improved customer experiences based on data analytics and customer insights.
3. Uncover new revenue streams and drive new business models by turning data into a competitive advantage.

- Rely on Cloud To Power Your Business and Fuel Your Transformation

START WITH FLEXIBLE, OPEN AND TRUSTED CHOICES

1. Meet digital business demands and compete to win with faster cloud deployment.
2. Drive new revenue streams and lower costs with cloud solutions that maximize ROI.
3. Ensure that business-critical services and service levels are met by taking advantage of cloud elasticity and pay-as-you-go efficiency.

- Rely on Cloud To Power Your Business and Fuel Your Transformation

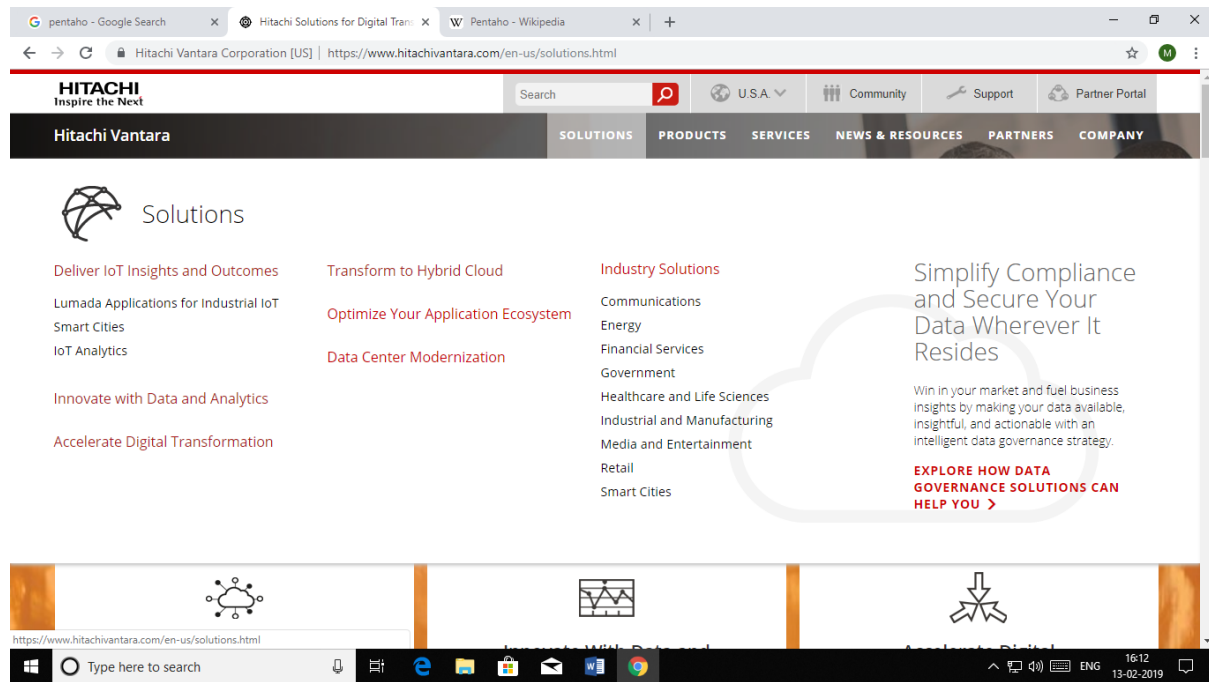
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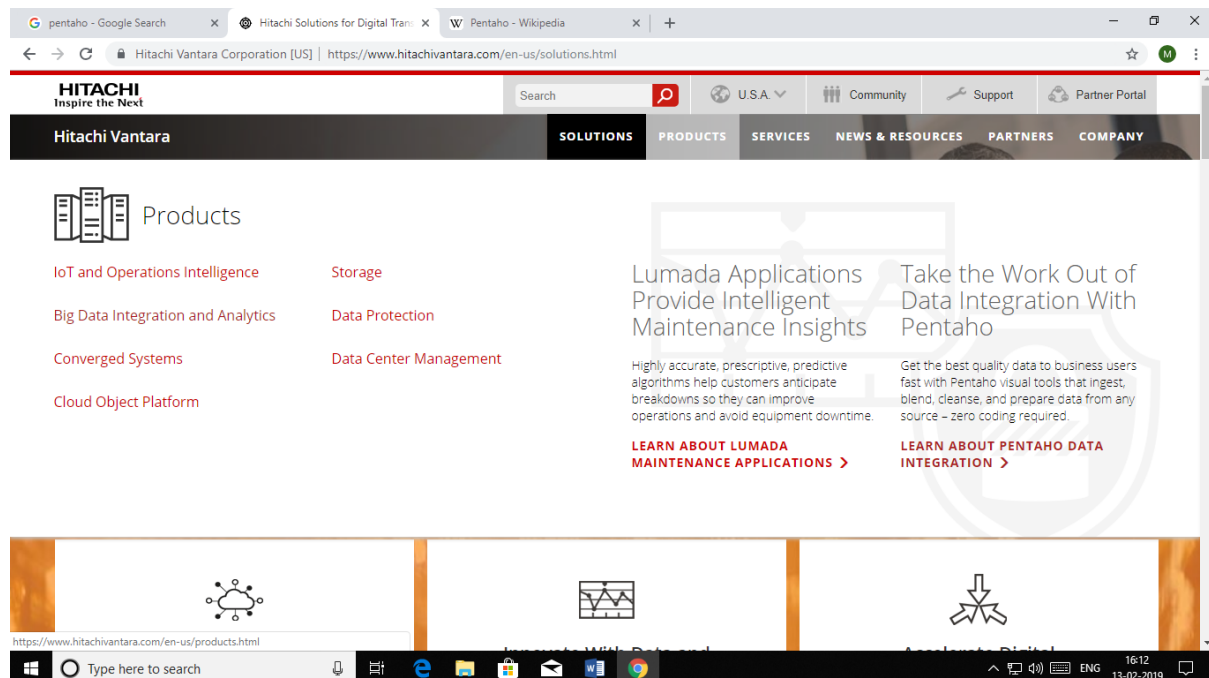
11. Performance Steps:

1. Visit the site <https://www.hitachivantara.com/go/pentaho.html>
2. Search and study the Products and Services.

12. Results:



Solutions in Pentaho



Products in Pentaho

13. Learning Outcomes Achieved

1. Understanding of Pentaho tool
2. Understanding of Services in Pentaho
3. Understanding of Products in Pentaho

14. Conclusion:

- 1. Applications of the studied technique in industry:** Data mining
- 2. Engineering Relevance:** Collaboration with IoT and Cloud technology
- 3. Skills Developed:** Understanding of Pentaho applications

15. References:

- [1] <https://www.hitachivantara.com/en-us/solutions.html>
- [2] <https://www.hitachivantara.com/en-us/products.html>
- [3] <https://en.wikipedia.org/wiki/Pentaho>