COURSE: Operating System			MARKS:
		CODE: BCN2053/ DRC1323	
ASSESSMENT: Project	NO: 1	DURATION: 4 weeks	/100

The operating system plays a key role in computer system security because it has access to every part of the system. Any vulnerability at the operating system level opens the entire system to attack. The most basic techniques used to protect hardware and software investments are good passwords and careful user training, but this is not as simple as it might appear. Passwords are forgettable, unlikely to be changed often, commonly shared, and considered bothersome by many people. As an alternative to passwords, some systems have moved to smart card, biometrics, the use of graphics or patterns of clicks.

For this project, you are required to:

1. Using the internet as your research tool, find related recent literature about the use of biometrics data to replace typed passwords.

2. In the literature, research the use of biometrics to replace typed passwords and provide a report to;

   a. Introduce the technology, and explain the relation with the security of operating systems.

   b. Describe the historical milestones of the technology.

   c. Explain its significant advantages and disadvantages.

   d. Find and explain **FOUR (4)** real world examples where this technology is used, citing your sources for each.

3. Each group should consist of **4 group members**.

4. Submit your report before or on **31th May 2024 at 5 pm**.

5. Your report must be more than **8 pages**, but not exceed **15 pages**.

6. Mark will be deducted for late submission.

7. Refer to **Report Marking Sheet** to guide your report preparation.

PROJECT OF BCN2053			
GROUP NAME:			
TEAM MEMBERS:			
NO	**MATRIC NUMBER**	**NAME**	**SECTION**
1			
2			
3			
4			

Report Marking Sheet			
No	**ITEM**	**MARKS**	
1	CONTENT (CO1)	**75**	
	Introduce the technology. • Explain clearly and accurately about the technology • Explain the relation between the technology with the operating system security.	/10 /10	
	Describe clearly the historical milestones of the technology. • Clear description • Use diagrams/infographics as a help to describe	/10 /5	
	Explain in detail its significant advantages and disadvantages, in terms of operating system security. • **THREE (3)** points of advantages • **THREE (3)** points of disadvantages	/10 /10	
	Find and explain **FOUR (4)** real world examples where this technology is used. - 5 marks for each example explanation	/20	
2	LIFE LONG LEARNING (CO5)	**25**	
	Literature about the use of graphics to replace typed passwords • Literature must related to the topic	/5	

	• Makes accurate reference to previous learning and applies in innovative (new and critical thinking) way that knowledge and skills to demonstrate the solution in project assessment.	/10	
	Citation and Reference list • Provide at least 4 recent sources of literature (Paper from year 2020 and upward) • Minimum 10 source of citations at least, including 4 citations of real examples. • Reference and citation must be in IEEE format	/5 /3 /2	
TOTAL		**/100**	