



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BANGLADESH UNIVERSITY OF BUSINESS AND TECHNOLOGY

COURSE OUTLINE

1	Faculty	Faculty of Engineering & Applied Sciences (FEAS)			
2	Department	Department of Computer Science and Engineering			
3	Program	B.Sc. Engg. in Computer Science and Engineering (B. Sc. Engg. in CSE)			
4	Course Code	CSE 342			
5	Course Title	Advanced Programming Language Lab			
6	Course Type	Core Course			
7	Pre-requisites	CSE 112			
8	Credit Hours/Value	1.5			
9	Contact Hours	17 weeks × 1 class per week × 2.5 hours per class = 42.5 total hours			
10	Year- Semester	3 - 1			
11	Academic Session	Spring 2026			
12	Class Schedule	Intake – Section (Shift)	Class Day	Class Hours	Venue
		53–1 (Day)	Wednesday	08:15 am – 11:15 am	B2/420
		BUBT Campus, Rupnagar, Mirpur 2, Dhaka - 1216			
13	Course Website	Google Classroom Code: 4mvcu6f2 Meet Link: https://meet.google.com/kjq-biju-ibw			
14	Course Teacher’s Information	Name (Code): Most. Jannatul Ferdous (MJF)		Specialization: Machine learning, Deep Learning	
		Designation: Asst. Prof., Department of CSE		Email: jannatul_ferdous@bubt.edu.bd	
				Cell No. +8801723586258	Room No. 303 (B-1)
15	Counselling Hour/Tutorial	Day	Counseling Hours	Venue	
		Sunday	01.30 pm – 02.45 pm	B1/303	
		Monday	01.30 pm – 02.45 pm		
		Thursday	01.30 pm – 02.45 pm		
16	Accessories & Aids	Students must carry learning materials like lecture notes, calculator, pen, pencil, eraser etc. in the classroom. Borrowing learning materials in the classroom or exam room from fellow students is prohibited. A student is also advised to keep a separate class note (khata) of 50 pages for the course during class hours.			
17	Course Rationale	This sessional (lab) course is based on the theory course CSE-341 Object-Oriented Programming Language. This course provides practical implementation aspects of object-oriented Programming principles and techniques using Java. The course is designed to perform Object-oriented programming to develop problem solutions using features of Java.			

18	Course Objective	The main objectives of this sessional course are introducing the fundamental concepts of object oriented programming language. In this course, students will be able to develop logics which will help them to create programs, applications using Java programming language. It emphasizes that the students learn to determine suitable logic for solving programming related problems using Java language and start preparing themselves for competitive programming world.			
19	Course Learning Outcomes (CLOs)	Upon completing this course, students will be able to: CLO1: Identify and implement classes and objects from the given problem description using Java. CLO2: Implement friend function, function overloading, operator overloading, and inheritance etc. and to solve different problems using Advanced Java programming. CLO3: Design and implement solutions of real life problems by using key features of OOP (Encapsulation, Inheritance, Polymorphism, Abstraction etc.) in Java			
20	Mapping of CO – PO Method of Delivery and Assessment Tool				
	CLOs	PLOs & CF	Bloom's Domain / Level	Delivery Methods / Activities	Assessment Tools
	CLO1	PLO1 CF = 2	Cognitive/Understanding	• Classroom Lecture (PPP &/or WBT*) • Classroom Discussion& Exercise practice • Analysis and design problem solving • Course Counseling	Indirect: In class response, course counseling, course end survey Direct: Class participation and activity, class test, assignment, midterm and final examinations
	CLO2	PLO2 CF = 3	Cognitive/Understanding		
	CLO3	PLO3 CF = 3	Cognitive/Analyzing		
*PPP: Power Point Presentation & WBL: White Board Teaching					
Correlation of COs to POs					
Correlation Criteria			Correlation Level	Correlation Factor (CF)	
Less than 25%			Almost no correlation	0	
Equal to or greater than 25% and below 50%			Poor (Low)	1	
Equal to or greater than 50% and below 75%			Moderate (Medium)	2	
Equal to or greater than 75% and up to 100%			Significant (High)	3	
21	Teaching-Learning Strategy	The course's teaching-learning process is designed to achieve its intended learning outcomes. Various classroom tools, such as multimedia projectors with desktop computers, whiteboards, and overhead projectors, are used to make the process engaging, effective, and comprehensive. The primary method of teaching is through classroom lectures, wherein most of the course content is covered in the lecture notes. For the remaining topics, textbooks are utilized, with additional references provided for students to study on their own. Lecture materials are posted on Google Classroom web pages and also provided as hard copies in the classroom. To ensure that students achieve the expected performance and knowledge level, classroom discussions, PowerPoint presentations, problem-solving using whiteboard markers, and homework or home studies are used. Counseling is also offered to help students with weak areas. Formative assessments of individual students are done through inside and outside classroom discussions, in-class eye contact and clicker questions, homework, and students' responses. A course-end survey is also conducted. Summative assessments are done through class participation and performance observation, assignments, class tests, and semester midterm and final examinations. If a student is absent from a class for any reason, they are advised to do self-study and take tutorials from the class teacher to make up for the missed class. Supplementary examinations are available for students who missed the midterm or final examinations due to valid reasons. These supplementary exams are more challenging than the			

	regular exams.
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Course Plan

This course consists of 150.0 min./week of class contact hours and an additional 90 min./week of counseling hours to explain students' design problems, provide reading materials, and assist in understanding lecture materials for preparing examinations, Lab tests, and assignments.

Week1	Lab 1	<ul style="list-style-type: none"> ❖ Understand Java Language Syntax & Semantics ❖ Operations, Expressions, Control-flow, Strings etc. 	
Week2	Lab 2	<ul style="list-style-type: none"> ❖ Class, objects and methods <ul style="list-style-type: none"> ● To write a java program to get and sort names by command line argument ● To write a java program to work with the creation of objects for the class with user defined methods returning a value. 	
Week3	Lab 3	<ul style="list-style-type: none"> ❖ Constructors, and Access Modifiers <ul style="list-style-type: none"> ● To write a JAVA program to implement constructor. ● To write a JAVA program to implement constructor overloading and method overloading ● To write a java program to implement inner class and demonstrate its access protections. ❖ Evaluation of Lab Performance 1 	CO1
Week4	Lab 4	<ul style="list-style-type: none"> ❖ Inheritance <ul style="list-style-type: none"> ● To write a Java program to understand the concept of Single inheritance. ● To write a Java program to understand the concept of Multilevel inheritance. ● To write a JAVA program to give example for “super” keyword 	
Week5	Lab 5	<ul style="list-style-type: none"> ❖ Runtime Polymorphism <ul style="list-style-type: none"> ● To write a java program to understand the concept of Method Overriding ● To write a Case study on run time polymorphism and inheritance. ❖ Evaluation of Lab Performance 2 	CO1
Week6	Lab 6	<ul style="list-style-type: none"> ❖ Abstract, Final <ul style="list-style-type: none"> ● To write a java program to implement the concept of Abstract and Final class ❖ Interface <ul style="list-style-type: none"> ● To write java program to implement the concept of 	CO1

		interface. ❖ Evaluation of Lab Performance 3	
Week7	Midterm Week		
Week8	Lab 7	❖ GUI Programming ● Write a JAVA program to build a Calculator in Swings ● Write a JAVA program to display the digital watch in swing tutorial.	
Week9	Lab 8	❖ GUI Programming (Continued) and Java Database Connectivity (JDBC) ● Write a JAVA program that to create a single ball bouncing inside a JPanel. ● Write a java program that connects to a database using JDBC with insert values into it and delete values from it	
Week10	Lab 9	❖ Package ● To write a java program to understand the steps in the creation of packages. ❖ Multithreaded Programming: ● To write a JAVA program that creates threads by extending Thread class and implementing the runnable interface ❖ Evaluation of Lab Performance 4	CO2
Week11	Lab 10	❖ Multithreaded Programming (Continued): ● To create a java program in a multithread environment and implement join() and isAlive() functions. ● To create a java program to understand the concept of thread synchronization ● To write a java program to implement the concept of inter-thread communication.	
Week12	Lab 11	❖ Exception Handling: ● To write a java program to implement the concept of exception handling ● To write a java program to implement the concept of user defined exception. ❖ Evaluation of Lab Performance 5	CO2
Week13	Lab 12	❖ Java Collections Framework ● To implementation of collection interface, set interface, ArrayList class, linked list class, Priority queue class, Map class etc.	
Week14	Lab 13	❖ File Input/Output ● Write a Java program that reads a file name from the user then displays information about whether that file exists, file is writable, the type of file and length of the file in bytes. ● Write a Java program that reads a file and displays the no of lines and words in that file. ❖ Evaluation of Lab Performance 6	CO2

Week16		❖ Brain Storming Week	
Week15	Lab 14	Project Presentation and Evaluation	CO3

23	i. Text Books	1. Teach Yourself C++: Herbert Schildt, 3rd Edition		
	ii. Reference Books	1. A Complete Reference to C++ by Herbert Schildt		
24	Assessment and marks distribution criteria	<p>Active engagement in class activities, participation in outside classroom discussions and communication through the Internet and phone are integral parts of this course. Failure to participate in class regularly, take class tests, and/or complete assignment may result in failing the course. To achieve the course-specific expectations, student must actively participate in classroom discussions and complete all sets of work at satisfactory level, as outlined in the course content. The course-specific expectations for students are achieved if</p> <ul style="list-style-type: none"> 75% of students in a section attend more than 70% of classes (determined by summative assessment). Their active participation in the classroom discussion is targeted at up to 80% of the total attendees (determined by formative assessments such as eye contact, clicker questions, and group discussions). Equal or more than 40% of course outcomes must be achieved by the students (summative assessment). The level of engagement in the studies, such as regularly preparing class lectures, class tests, and assignments, must be more than 60% (formative assessment). Expected level of participation in the outside class discussion (once weak, more than 30% of students in a section) by course counseling and using social media like Google Classroom, email, phone call, etc. (formative assessment). Students are assessed according to their individual performance in the examinations, class tests, assignments, and class participation. The final mark calculation and course outcome assessment are done based on the following mark distribution criteria: 		
		Assessment tool	Conducting Number	Mark distribution (%)
		Class participation	17	05
		Continuous Lab Evaluation & Assignments	1	25
		Lab Mid Exam	1	30
		Final Lab Evaluation & Report	1	40
		Total Marks		100
		Class participation & activity performance criteria		
		Performance level	Mark distribution (%)	
		91% - 100%	05	
		86% - 90%	04	
		81% - 86%	03	
		76% - 80%	02	
		70% - 75%	01	
		less than 70%	Not allowed to sit for the final examination.	

25	Assessment Strategy			
	Assessment tool	Content, Length and Criteria	Weight (mark)	Due date
	Lab Performance Evaluation & Assignments	Lab performance evaluations occur following the completion of each classroom topic. A total of 30 marks are allocated for the assessment of lab performance in relation to the practiced material.	25	After each lecture and following the examination schedule of BUBT.
	Lab Mid Exam	Midterm Examination is held after 7 weeks of classes. Three questions are to be answered by the students in one and half-hour exam period. The assigned full mark for three (3) questions is 30.	30	After 7 weeks' lecture and following the examination schedule of BUBT.
	Final Project Evaluation	Final Lab Examination is held after 8 weeks of classes after the midterm examination. All of the students make a group and each group is assigned a project by the course teacher. The assigned full mark for the exam is 40.	40	After 9 weeks of classes afterward the midterm examination and following the examination schedule of BUBT.

26	CLO Assessment Criteria	Assessment of CLOs				
		Assessment Tool	CLO			Mark Allocation
			CLO1	CLO2	CLO3	
		Class Participation				
		Continuous Lab Evaluation & Assignments				
		Lab Mid Exam	10	20		30
		Final Project		10	30	40
		Total Marks	10	30	30	70

27	Rubrics (Attainment Criteria)	CLOs (Taxonomy domain)	Not attained /Failed (0-39%)	Poor (40%-49%)	Moderate (50%-64%)	Good (65%-79%)	Excellent (80%-100%)
		CLO1 (understand)	The question was answered with serious deficiencies in understanding and explanation. Applicable method was not almost touched.	The question was answered inadequately by touching on the applicable method or without explanations. As a result, a few steps of problem-solving procedures or concepts are not developed properly or are missing.	The question was answered partially correctly by applying the method or concepts asked, but a few important details were missing.	The question was answered correctly but briefly, and missed some portions of the important explanation by applying the required method or concepts.	The question was answered correctly with detailed explanations using the asking method of solving the problem or concepts with adequate explanation.
		CLO2 (understand and apply)					
		CLO3 (apply)					

28	Feedback	All kinds of feedback to the students will be produced within a week after the day of holding a class test and midterm examination. No answer script will be shown for the final examination if it is not challenged by a student. Online and email queries will also be responded to within three days by email.
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29	Grading Policy	Letter grades and grade points are used to evaluate the performance of a student in the course:		
		Marks Range	Letter Grade	Grade Point
		80% and above	A+ : A Plus (Outstanding)	4.00
		75% to less than 80%	A : A regular (Excellent)	3.75
		70% to less than 75%	A- : A minus (Very good)	3.50
		65% to less than 70%	B+ : B Plus (Good)	3.25
		60% to less than 65%	B : B regular (Average)	3.00
		55% to less than 60%	B- : B minus (Below average)	2.75
		50% to less than 55%	C+ : C Plus (Poor)	2.50
		45% to less than 50%	C : C regular (Very poor)	2.25
		40% to less than 45%	D : Pass marginally	2.00
		Less than 40%	F : Fail	0.00
			I : Incomplete	
			R : Retake	
			W : Withdraw	

30	Additional Information	Academic Calendar Fall2023: https://www.bubt.edu.bd/Home/page_details/Academic_Calender Academic Rules: https://www.bubt.edu.bd/Home/page_details/Rules_and_Regulations Grading & Evaluation: https://www.bubt.edu.bd/Home/page_details/Evaluation_Grading_System Rules& Regulations: https://www.bubt.edu.bd/Home/page_details/Office_of_the_Registrar
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31	Bloom's Taxonomy for Teaching-Learning		
	Bloom's Taxonomy is a set of three hierarchical models used to classify educational learning objectives into levels of complexity and specific quality. The three taxonomy domains for achieving learning objectives are cognitive affective and psychomotor. Cognitive domain is in the primary focus of educating and frequently used to structur curriculum learning objectives and achieve the levelof learning. The three domains and their respective levels ar illustrated below:		
	Cognitive [C] (Knowledge-based)	Affective [A] (Emotion-based)	Psychomotor [P] (Action-based)
	Remember	Receive	Imitate
	Understand	Respond	Manipulate
	Apply	Value	Precision
	Analyze	Organize	Articulation
	Evaluate	Characterize	Naturalization
	Create	--- --- ---	--- --- ---

32	Descriptions of Cognitive Domain (Anderson and Krathwohl's updated Taxonomy in 2001):		
	The cognitive domain involves the development of our mental skills and the acquisition of knowledge.		
	Category (Level)	Meaning	Keywords
	Remember (C1)	Recognizing or recalling knowledge from memory. Remembering is when memory is used to produce or retrieve definitions, facts, or lists, or to recite previously learned information.	Define, describe, draw, find, identify, label, list, match, name, quote, recall, recite, tell, and write
	Understand (C2)	Constructing meaning from different types of functions be they written or graphic messages or activities like interpreting, exemplifying, classifying, summarizing, inferring, comparing, or explaining.	Classify, compare, exemplify, conclude, demonstrate, discuss, explain, identify, illustrate, interpret, paraphrase, predict, and report
	Apply (C3)	Carrying out or using a procedure through executing or implementing. Applying relates to or refers to situations where learned material is used through products like models, presentations, interviews, or simulations.	Apply, change, choose, compute, dramatize, implement, interview, prepare, produce, role play, select, show, transfer, and use

Analyze (C4)	Breaking materials or concepts into parts, determining how the parts relate to one another or how they interrelate, or how the parts relate to an overall structure or purpose. Mental actions included in this function are differentiating, organizing, and attributing, as well as being able to distinguish between the components or parts. When one is analyzing, he/she can illustrate this mental function by creating spreadsheets, surveys, charts, or diagrams, or graphic representations.	Analyze, characterize, classify, compare, contrast, debate, deconstruct, deduce, differentiate, discriminate, distinguish, examine, organize, outline, relate, research, separate, and structure
Evaluate (C5)	Making judgments based on criteria and standards through checking and critiquing. Critiques, recommendations, and reports are some of the products that can be created to demonstrate the processes of evaluation.	Appraise, argue, assess, choose, conclude, decide, evaluate, judge, justify, predict, prioritize, prove, rank, rate, select, Monitor.
Create (C6)	Putting elements together to form coherent or functional whole; reorganizing elements into a new pattern or structure through generating, planning, or producing. Creating requires users to put parts together in a new way, or synthesize parts into something new and different creating a new form or product. This process is the most difficult mental function in the new taxonomy.	Create, invent, compose, predict, plan, construct, design, propose, devise, and formulate

33	Graduate Attributes (Program Learning Outcomes) of B.Sc. in CSE Program based on Washington Accord
	<p>Program Learning Outcomes (PLOs) are brief statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills, and attitudes that students acquire throughout the entire course of a program. The students of the B.Sc. in CSE program are expected to achieve the following graduate attributes or program outcomes at the time of graduation:</p> <p>PLO1. Apply knowledge of mathematics, natural science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.</p> <p>PLO2. Identify, formulate, and analyze complex engineering problems reaching substantiated conclusions using the first principles of mathematics and natural and engineering sciences.</p> <p>PLO3. Design solutions for complex engineering problems and design systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.</p> <p>PLO4. Conduct investigations of complex problems using research-based knowledge and research methods that include the design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.</p> <p>PLO5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering problems, with an understanding of the limitations.</p> <p>PLO6. Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problems.</p> <p>PLO7. Understand and evaluate the sustainability and impact of professional engineering work to solve complex engineering problems in societal and environmental contexts.</p> <p>PLO8. Apply ethical principles and commit to professional ethics, responsibilities, and norms of engineering practice.</p> <p>PLO9. Function effectively as individuals and members or leaders of diverse teams and in multidisciplinary settings.</p> <p>PLO10. Communicate effectively on complex engineering activities with the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and convey and receive clear instructions.</p> <p>PLO11. Demonstrate knowledge and understanding of engineering and management principles and apply them to their work as team members or leaders or entrepreneurs to manage projects in multidisciplinary environments.</p> <p>PLO12. Recognize self-awareness to engage in a lifelong learning process to reflect in the broadest context of technological change.</p>

34	Knowledge Profile (K)
	<p>K1: A systematic, theory-based understanding of the natural sciences applicable to the discipline.</p> <p>K2: Conceptually-based mathematics, numerical analysis, statistics and formal aspects of computer and information science to support analysis and modeling applicable to the discipline.</p> <p>K3: A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline.</p> <p>K4: Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline much is at the forefront of the discipline.</p> <p>K5: Knowledge that supports engineering design in a practice area.</p> <p>K6: Knowledge of engineering practice (technology) in the practice areas in the engineering discipline.</p> <p>K7: Comprehension of the role of engineering in society and identified issues in engineering practice in the discipline: ethics and the professional responsibility of an engineer to public safety; the impacts of engineering activity: economic, social, cultural, environmental and sustainability.</p> <p>K8: Engagement with selected knowledge in the research literature of the discipline.</p>
35	Range of Complex Engineering Problem Solving (P)
	<p>Complex Engineering Problems have characteristic P1 and several or all of P2 to P7:</p> <p>P1. Depth of knowledge required: Cannot be resolved without in-depth engineering knowledge at the level of one or more of K3, K4, K5, K6 or K8, which allows a fundamentals-based, first principles analytical approach</p> <p>P2. Range of conflicting requirements: Involve wide-ranging or conflicting technical, engineering and other issues</p> <p>P3. Depth of analysis required: Have no obvious solution and require abstract thinking, originality in analysis to formulate suitable models</p> <p>P4. Familiarity of issues: Involve infrequently encountered issues</p> <p>P5. Extent of applicable codes: Are outside problems encompassed by standards and codes of practice for professional engineering</p> <p>P6. Extent of stakeholder involvement and conflicting requirements: Involve diverse groups of stakeholders with widely varying needs</p> <p>P7. Interdependence: Are high-level problems including many component parts or sub-problems</p>
36	Range of Complex Engineering Activities (A)
	<p>Attribute Complex activities means (engineering) activities or projects that have several or all of the following characteristics:</p> <p>A1. Range of resources: Involve the use of diverse resources (and for this purpose resources include people, money, equipment, materials, information and technologies).</p> <p>A2. Level of interaction: Require resolution of significant problems arising from interactions between wide-ranging or conflicting technical, engineering, or other issues.</p> <p>A3. Innovation: Involve creative use of engineering principles and research-based knowledge in novel ways.</p> <p>A4. Consequences for society and the environment: Have significant consequences in a range of contexts characterized by difficulty of prediction and mitigation.</p> <p>A5. Familiarity: Can extend beyond previous experiences by applying principles-based approaches.</p>

37	Code of Conduct <p>It is strongly suggested that students keep discipline in the classroom by attending class on time, listening to lectures attentively, and participating in discussions on the subject. To get class participation grades students MUST attend the classes of the courses s/he registered for. Turn off his or her cell phone before entering a class or participating in class tests and exams. There are activities that are considered academic misconduct. One of them is plagiarism, which signifies the deliberate formal presentation or submission of works, phrases, texts, ideas, illustrations, or diagrams of others as one's own without proper citation. Another one is the use of unauthorized aids (including electronic devices), asking for assistance, or using illegal materials when preparing assignments or in examinations. In addition, copying from others' work, showing your work to others, and asking for answers are also considered academic misconduct. Penalties for involving academic misconduct include one or more of the following: a zero grade on the work produced, a failing grade in the course, suspension for one semester or more, and even expulsion from the university. On the university premises or at a university-sponsored program, students must abide by the Student Code of Conduct and other Rules and Regulations of BUBT, which are available on the BUBT website at https://www.bubt.edu.bd/Home/page_details/Office_of_the_Proctor.</p>			
38	Social & Moral Values <p>Our promises are based on the three cardinal principles:</p> <ol style="list-style-type: none">What we do believe.What we do practice.What we will promote. <p>However, students are advised to undertake the following commitments for social and moral developments.</p> <table><tr><td><ul style="list-style-type: none">● To be punctual and attentive in classes;● To prioritize honesty & faith;● To ensure mutual respect;● To be always proactive;● To avoid conspiracy;● To be cooperative in learning;● To be sincere in class preparation;</td><td><ul style="list-style-type: none">● To avoid unfair means and plagiarism in exams, report writings and assignments;● To carry out assignments or keep other commitments timely;● To be motivated for asking question and encourage feedback;● Not to forget to switch-off the cellphone in a class;</td><td><ul style="list-style-type: none">● To follow the dress code and wearing ID card on campus;● To be decent on all aspects;● To be loyal and trust-worthy to the teachers and others;● Help keeping an eco-friendly environment in the campus.</td></tr></table>	<ul style="list-style-type: none">● To be punctual and attentive in classes;● To prioritize honesty & faith;● To ensure mutual respect;● To be always proactive;● To avoid conspiracy;● To be cooperative in learning;● To be sincere in class preparation;	<ul style="list-style-type: none">● To avoid unfair means and plagiarism in exams, report writings and assignments;● To carry out assignments or keep other commitments timely;● To be motivated for asking question and encourage feedback;● Not to forget to switch-off the cellphone in a class;	<ul style="list-style-type: none">● To follow the dress code and wearing ID card on campus;● To be decent on all aspects;● To be loyal and trust-worthy to the teachers and others;● Help keeping an eco-friendly environment in the campus.
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Prepared by: Most. Jannatul Ferdous

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