MINOR ASSIGNMENT-02

Game Programming with C++ (CSE 3545)

Game	Trogramming with CTT (CSL 3)	5 1 5)
Publish on: 11-03-2025 Course Outcome: CO ₂	Program Outcome: PO ₂	Submission on: 18-03-2025 Learning Level: L ₃
Problem Statement:		
=	embers, objects, constructors and namespa ith Simple and Fast Multimedia Library(S	
Learning Objectives:		
Students will be able to learn the ment and function returning object	uses of predefined classes, objects, metho	d calls, object as function argu-
Answer the followings:		
	name of the namespace(s) required to us empilation and execution commands in I	
2. Assume that you have a class 4 objects of that class. ANSWER::	ss as calculateArea{ };, Wr	ite the C++ statement to declare
	s(int, int); and void getValue.culateArea{ };. Write the C that class.	
SFML-C++ statements::		

4.	Write C++ statements to open a window with 960 pixels wide by 540 pixels high.
	SFML-C++ statements::
	Write the SFML-C++ statements for the Game loop/ Application loop to stay in the program until the player want to quit for the Game Timber. Additionally enable the Esc key to terminate the game loop, when the key is pressed.
	SFML-C++ statements::
	Consider the two SFML classes, Texture and Sprite, that will take care of drawing sprites into the screen. Use the two classes to draw an image soa.jpeg onto the window of size 960×540 . SFML-C++ statements::
	Write the SFM-C++ statements to fly the image soa.jpeg across the screen from top center to buttom of the screen. You can make use of the Sprite class method setScale to set the scale factors of the sprite object.
	SFML-C++ statements::

8.	Write the SFM-C++ statements to fly the image soa.jpeg across the screen from left to right. You can make use of the Sprite class method setScale to set the scale factors of the sprite object.
	SFML-C++ statements::
9.	Let us pretend the speed of a spriteBee is 200 pixels per second. Calculate the amount of time the Bee will take to cross the entire width of the screen that is, 2000 pixels wide. Also calculate the bit rate per second (i.e. bps) of the spriteBee , if 1 pixel contains 8 bits.
	Show the computation::
10.	The Clock clock; clock.restart() function restart the clock. The clock is restarted in every frame to know how long each and every frame takes. <i>In addition, however, clock.restart()</i> , returns the amount of time that has elapsed since the last time we restarted the clock. So, compute the distance a spriteBee object will cover in a frame assuming the speed of the spriteBee is beeSpeed pixels/second.
	Show the computation::

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