

AY 2004/2005 Year 2, Semester 1

ADVANCED MULTIMEDIA DEVELOPMENT (CIC2P13) **Laboratory Six**

Please follow the textbooks for the lab exercises:

Macromedia Flash MX 2004 Game Programming - Graig S. Murray, Justin Everett-Church (2003)

Please use Flash MX 2004

Please refer to the subject website for example files and resource files:

At the end of this lab session, students should be able to:

• Create a game "Critter Attack" (or Space Invader) with ActionScript programming

Exercise – Game: Critter Attack (Space Invader)

(estimated time: 4 hours with lecturer's guidance, 3 hours self practice)

Major Tasks

- Player controls the spaceship with arrow keys 1. Subtasks
 - i.
 - Setup alignment to upper-left corner & scaleMode of .swf file
 - ii. Initialize game
 - iii. Create scoreboard - critter attack step1 initGame score.fla
 - Create ship critter_attack_step2_initGame_ship.fla
 - User keyboard control left arrow, right arrow, spacebar -

critter_attack_step3_ship_control.fla critter_attack_step4_ship_control.fla

- Aliens move as large block back and forth 2. Subtasks
 - i. Create aliens
 - Put aliens on stage row and column critter_attack_step5_Aliens.fla ii.
 - Aliens move from left to right, down, right to left ...
- Each Time the aliens get to the edge, they move down critter_attack_step6_Aliens_Move.fla 3.



4.

5.

Subtasks

Subtasks

i.

ii.

iii. iv.

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Aliens can fire lasers back

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i. Create alien bullets randomly

Create player bullet

Player bullet travel up

Put alien bullets at the chosen alien location ii.

Put player bullet at the ship location

If player bullet go out of stage, it is taken out

iii. Alien bullets travel down

If an alien bullet go out of stage, it is taken out iv.

If it hits player, go to step 7 - critter attack step7 Aliens Bullets.fla

If it hits an alien, go to step 6 - critter attack step8 Player Bullets.fla

When player shoots an alien, it dies and disappears 6.

7. When the aliens shoot the player, ship becomes redder-critter_attack_step9_Levelup_HitShip.fla

8. If player dies, game ends

If player kills all the aliens, more faster aliens 9. Subtasks

Spaceship fire lasers using space bar

Create next level i.

ii. Reset all variables, re-initialize game

10. Create the stars as background

11. Implement sound for different incidences - critter attack step10 Stars Sound.fla

Download the file critter attack step0.fla from the subject website. Rename it to critter attack step1.fla. (You have some movie symbols created for you.)

Refer to textbook **Pg333 to 367**, and follow the tasks breakdown above. Follow the example files from the subject website, build the game step by step.