Lecture 80: - Flyweight Design Page No. | powtern Date |

# Intoduction

Let's assuse we have to oracle - some Eandom games or ose cours and - some Eandom games or ose cours and one taken to hardle out and RAM will not be able to handle out objects.

Hyweight design pattern.

\* Flyweight Design pattern is used to minimize memory usage by sharing common parts of state between multiple objects instead of storing all data in reach object.

Game Examples

which stands shoots laser and many agtenods are also coming and you have to shoot that asteroids.

no. of asteroids depend on level of districulty. if easy - 3-4 asteriods hard- much man asteroids

Screen i PINOS Supplicient then game will creek.

instead of exating new one each

It we oplit object into two parses - intrinsic Cathamel) and extrinsic conique) properties to reduce memory usage

12fc 3/4 6	Asteroid
Let assume asteroid	int lengths
properties value eange	
as	int weights
length - 10,20,80. ) using	
width - 10,20,30. the	
weight - 1,2,3.   con	upu just boz'ki baza
color - Red, green, Blue pro	people int verx, very;
texture - SOPT, Hard ) an	e delico das .
mix mix	ade of a cold

by just making diff objects.

10000 we are generating asteroid at any place & velocity and only this part is varying in all objects

And as we have dixed properties and dix options of reange so these properties will be same for multiple obtects.

# pivide these properties in a parts: if Inminsic property: same property which can be selle In our game jb's rength, width, weight color, theme 2) Extrinsic property not same for any asperoids, can't be sensed. In our game it's velocity, position. Asteroidcontext Asteroid weight Asteroid Flyweight OP; int length; I has-a' int posx; int width's int weight; int posy; int ver; Shi ng (010m; String yenteri int vely; -> Reciseuble FlyweightPadery map (sming), Asteroid by weight > pools Astorol'd Pryweight has-a' (1,00,001,col,tex);

