EXPERIMENT 10

COMPUTER GRAPICS AND MULTIMEDIA

Aim

To bounce a ball using animation.

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EXPERIMENT - 10

AIM:

To bounce a ball using animation.

THEORY:

The bouncing ball exercise is a good place to start, because there are not too many controllers to use in a 3D application and because it deals primarily with basic movement. You should have a good idea of what a bouncing ball looks like.

You need to set up some ground rules for animation to get started; for example, setting a frame rate for the application. You will be using 30 frames per second.

To set the frames per second or fps:

Click Window > Settings Preferences > Preferences.

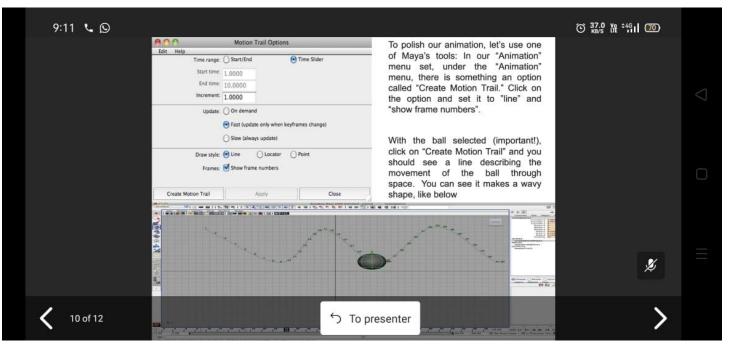
In the Preferences window, select Settings.

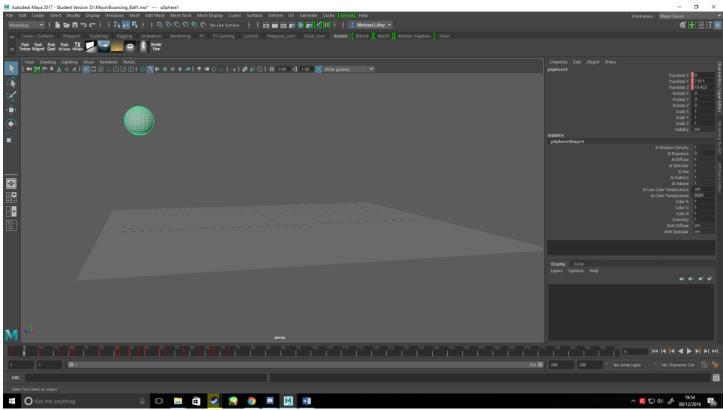
In the Settings dialog box, set the time option to NTSC[30 fps).

To bounce a ball using Key frame Animation.

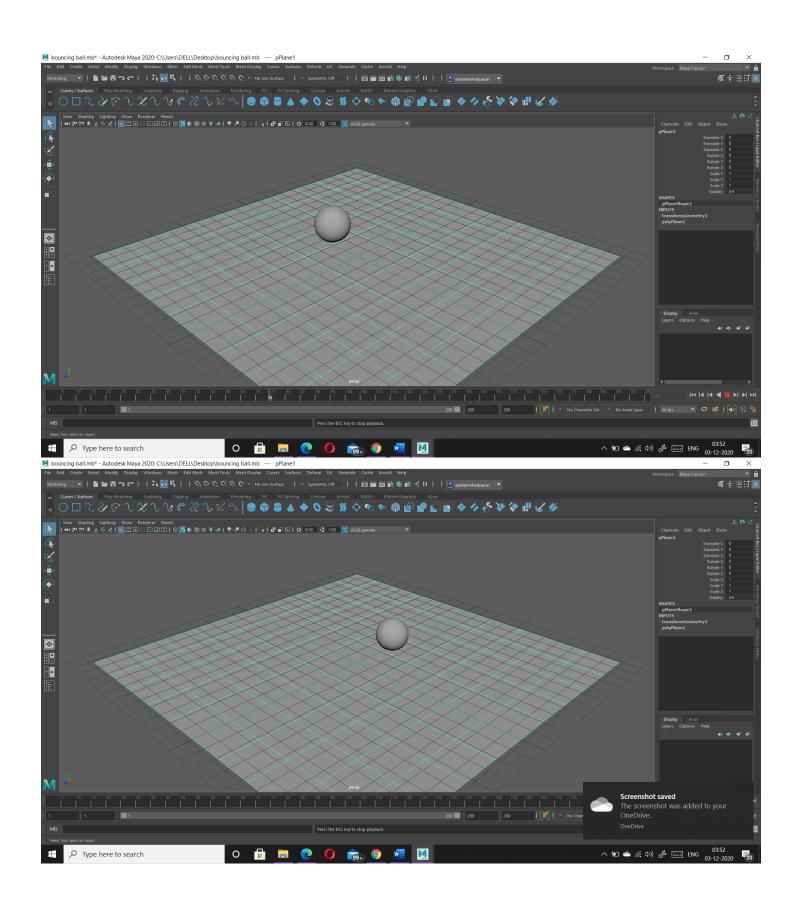
STEPS:

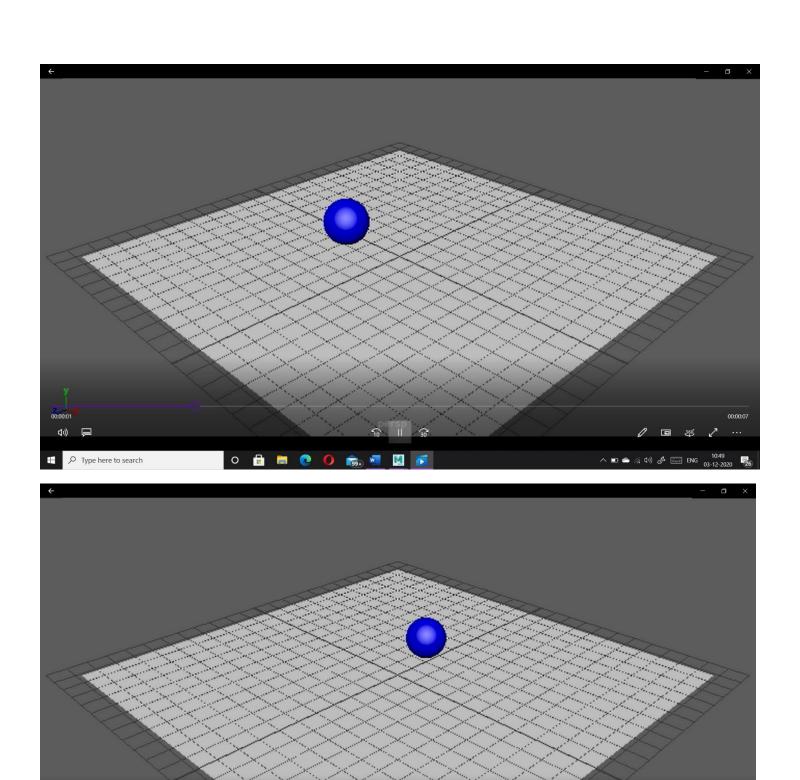
- Step 1: Select 'Animation' from main menu bar.
- Step 2: Click 'Create' on Maya title bar and then click on 'Polygon's primitives' and then click on 'Sphere'.
- Step 3: Click 'Move' tool to move the ball to position in a frame.
- Step 4: Fix the position of the ball in a frame by pressing the 'Set key(Shortcut-S).
- Step 5: Move to the next frame and set another position of the ball using Set key.
- Step 6: Click 'Play' to view the moving ball.





Animation Screenshots

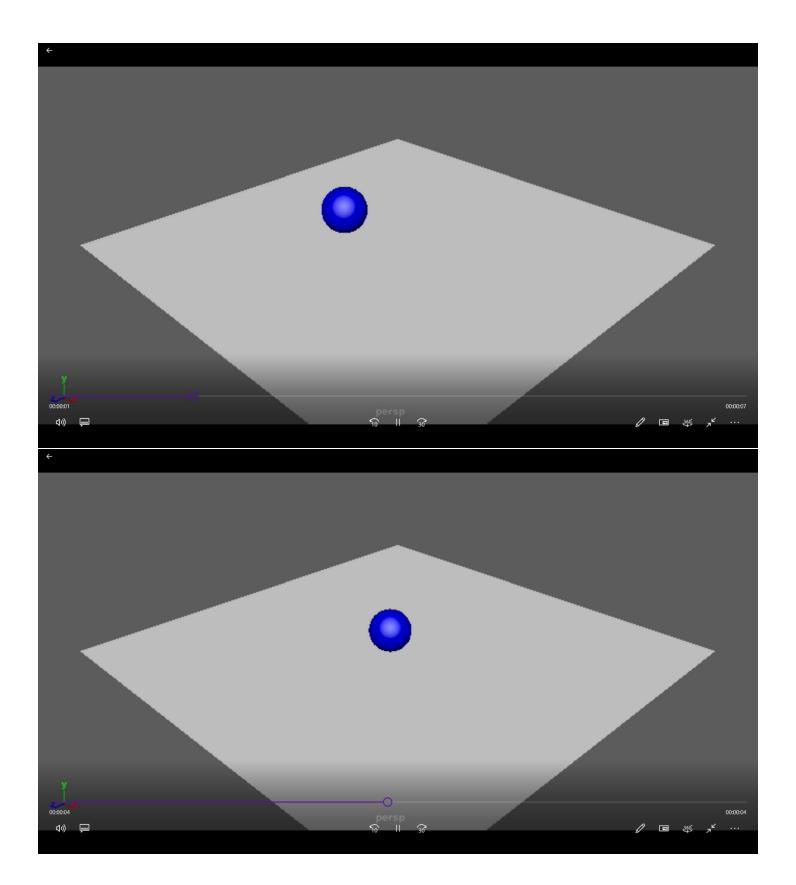


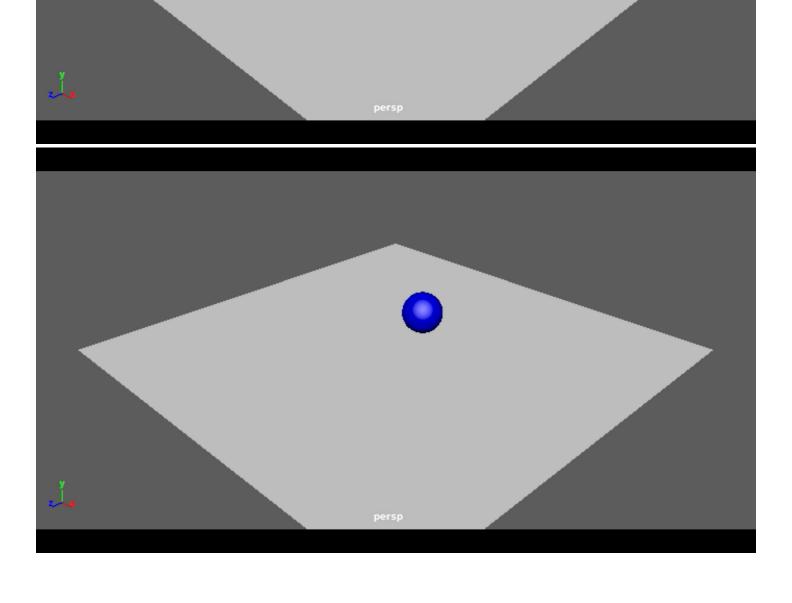


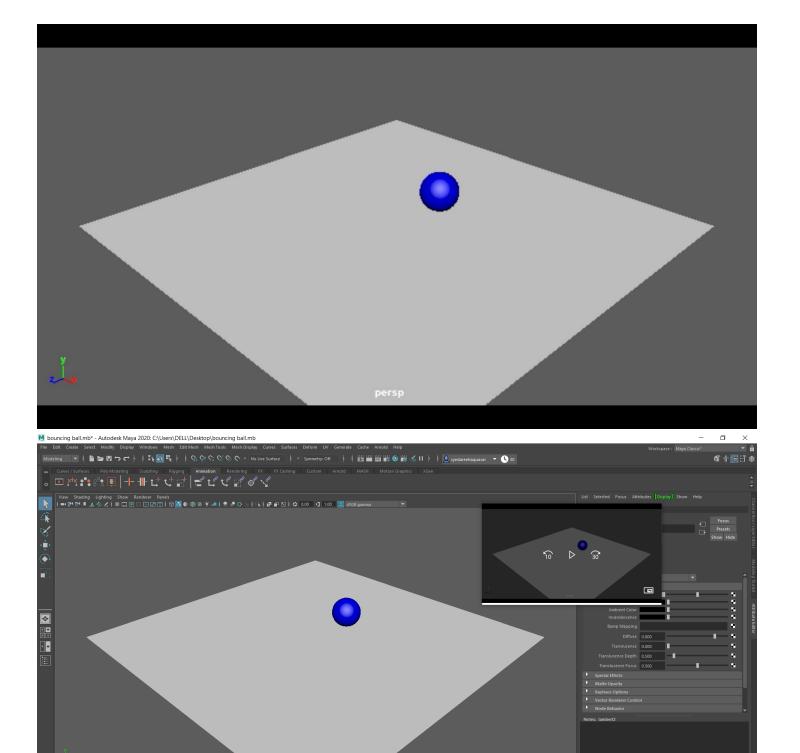
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VIVA-VOCE QUESTIONS

Q1. Short films that use stop motion techniques are what type animation?
a) Frame-based animation
b) HTML
c) Animation
d) Production
Ans.
a) Frame-based animation
Q2 is the sequence of images displayed one after the other in a given time frame.
a) Translation
b) Animation
c) Ordering
d) Shearing
Ans.
C) Ordering
Q3 In which tab of properties window, frames per second, start time and end time is specified?
a) Image
b) Time
c) Duration
d) Animating
Ans.
b) Time
Q4. A video consists of a sequence of
a) Signals
b) Frames
c) Packets
d) Slots
Ans.

Q5. A	is a frame in which a changes to an object's properties are defined.
a) Multifram	e
b) single fra	me
c) keyframe	
d) userframe	

Ans.

c) KeyFrame

b) Frames