Create the Framebuffer Object (FBO)

or Cube Map as the texture object

☐ Generate FBO descriptor using glGenFramebuffers()☐ Bind fbod to be active using glBindFramebuffer() and GL_FRAMEBUFFER	
Attach Renderbuffer Objects (RBO)	
 □ Generate RBO descriptors using glGenRenderbuffers() □ Attach Depth Buffer Object (DBO) □ Bind renderbuffer using glBindRenderbuffer() □ Allocate memory for depth buffer using glRenderbufferStorage() using i format of GL_DEPTH_COMPONENT □ Attach renderbuffer to framebuffer using glFramebufferRenderbuffer() 	nternal
GL_FRAMEBUFFER, GL_DEPTH_ATTACHMENT, GL_RENDERBUFFER, dbod [Optional] Attach Stencil Buffer Object (SBO) Bind renderbuffer Allocate memory for depth buffer using glRenderbufferStorage() using i format of GL_STENCIL_INDEX Attach renderbuffer to framebuffer using glFramebufferRenderbuffer() GL FRAMEBUFFER, GL STENCIL ATTACHMENT, GL RENDERBUFFER, sbod	nternal
□ [Optional] Attach Depth and Stencil Buffer Objects together at once (DSBO) □ Bind renderbuffer □ Allocate memory for depth buffer using glRenderbufferStorage() using i format of GL_DEPTH_STENCIL □ Attach renderbuffer to framebuffer using glFramebufferRenderbuffer() GL FRAMEBUFFER, GL DEPTH STENCIL ATTACHMENT, GL RENDERBUFFE	
 □ [Optional] Attach additional Color Buffer Objects (CBO) □ Bind renderbuffer □ Allocate memory for depth buffer using glRenderbufferStorage() using a internal format GL_RGB, GL_RGBA, etc. □ Attach renderbuffer to framebuffer using glFramebufferRenderbuffer() GL_FRAMEBUFFER, GL_COLOR_ATTACHMENTi, GL_RENDERBUFFER, cbod 	
Attach Texture Image to FBO	
☐ Generate texture handle using glGenTextures() ☐ Bind texture handle to be active using glBindTexture() ☐ Allocate space for texture of framebuffer size using glTexImage2D() ☐ Set texture filters and texture coordinate wrap parameters ☐ Attach texture to corresponding renderbuffer attachment using glFramebufferTex ☐ Note: This will generally by attached to one of the CBOs using GL_COLOR_ATTA but we could attach to the DBO using GL_DEPTH_ATTACHMENT ☐ Note: Texture does not need to be limited to a 2D texture, can use a 1D texture, S	ACHMENT i

Check	Framebuffer Status
	Query status using glCheckFramebufferStatus() Check if returned value equals GL_FRAMEBUFFER_COMPLETE If returned value is something else, then check relevant error code
When	rendering the scene - First Pass
	Bind fbod using glBindFramebuffer() Set viewport to framebuffer size using glViewport() Render scene as normal using shaders and VAOs Ensure OpenGL has finished drawing by calling glFlush()
When	rendering the scene - Second Pass
	Detach framebuffer to render to screen by calling glBindFramebuffer(0) Use postprocessing shader program using glUseProgram() Bind framebuffer texture using glBindTexture() Set viewport to window size using glViewport() Set projection matrix to a 2D orthographic projection Render a textured quad that fills the screen

When cleaning up memory

 \square Delete the FBO using glDeleteFramebuffers()

☐ Delete the Renderbuffers using glDeleteRenderbuffers()