**Project statement:**

The goal of this project is to help normal people get a better understanding of blind by creating an experience of walking in highly blurred or black environment only with the help of sound. You can control the movement of your character with arrow key in the keyboard. The story is about a person who suddenly become blind and need to go to the hospital nearby and finally go back home safely.

**Specific goals for the project:**

1. move with arrow key

2. create 3 scenes with shapes and images (a room of home – blur; street – blur to black; a room of hospital – black)

3. add variation in pictures displayed in the window with crafted randomness and changes of light

4. picture will change with movement

5. set HP for character by using variables

6. Thoughtful integration of sound (Knock on the wall, Tripped by an object, Hit by a car, Car,

Ambulance, White Cane, Traffic light, People, Character, Doctor)

7. Echo visual visualization (while using white cane)

8. Create death scene with particles and sound

Extra:

Control movement with speak

**Resources:**

Game:

Dark Echo <http://www.darkechogame.com/>

A Blind Legend <https://www.youtube.com/watch?v=izRCSaPWr2o>

Blindscape <https://www.youtube.com/watch?v=u-q_k0-pIcc>

Blind drive <https://www.youtube.com/watch?v=Fa1XetWE79Q>

Hands On: Panoramical <https://www.youtube.com/watch?v=Ta2L3Z7OMng&list=PLZFXcGXpOcDuqwfosiHokY2PyZDQrwhtM&index=2>

Echo/Wave/Ripples:

<https://www.openprocessing.org/sketch/377240>

<https://www.openprocessing.org/sketch/582277>

<https://www.openprocessing.org/sketch/446986>

Blind simulation:

<https://www.youtube.com/watch?v=rpzSs0c-xyM>

<https://simulator.seenow.org/webgl-camera.html>

<https://www.youtube.com/watch?v=PPGTfUr6O8o>

<https://www.youtube.com/watch?annotation_id=annotation_721942683&feature=iv&src_vid=PPGTfUr6O8o&v=hlcx_q8u_YI>

How Blind People Cross The Street Alone:

<https://www.youtube.com/watch?v=48DqdwzftnQ>

Movement and Orientation: Use Your Senses:

<http://www.visionaware.org/info/everyday-living/essential-skills/an-introduction-to-orientation-and-mobility-skills/indoor-movement-and-orientation-with-vision-impairment/1235>

Human echolocation:

<https://en.wikipedia.org/wiki/Human_echolocation>

**Tasks:**

1move with arrow key

2.map-home

3.blur picture with variation

5.interaction with wall

6.interaction with objects

7.map-street

8.black picture with variation

9.car; ambulance (different shape and sound)

10.traffic light(sound)

11.interaction with car(death scene)

12.map-hospital

13.white cane(visualization of echo)

14.interaction between echo from the white cane and other objects