Task 4

- a. Get the code from http://frend.skimtech.my/Lab/Lab4/Task4.html , and evaluate and test the code.
- b. Getting the context of the canvas
 - a. Add the following code:

```
var canvas = document.getElementById("myCanvas");
var ctxt = canvas.getContext('2d');
```

- i. What is the meaning of context in this case?
- c. Drawing a triangle to canvas
 - a. Setup the fillStyle, strokeStyle and linewidth.

```
ctxt.fillStyle = '#f00';
ctxt.strokeStyle = '#000';
ctxt.lineWidth = 3;
```

- b. Describe the purpose of each method in (a)
- c. Put these codes into an appropriate function:

```
ctxt.beginPath();
ctxt.moveTo(60, 240);
ctxt.lineTo(240, 240);
ctxt.lineTo(150, 60);
ctxt.closePath();
ctxt.fill();
ctxt.stroke();
```

- d. Test you code and evaluate the output
- e. Rearrange the position of coordinate and test your code.
- f. What is the use of moveTo methods above?
- d. a new rotate triangle function
 - a. Set the new position of the new triangle at the middle of previous triangle

```
ctxt.translate(canvas.width / 2, canvas.height / 2);
ctxt.rotate(Math.PI / 4);
ctxt.beginPath();
```

b. Start drawing a new triangle using a new coordinate

```
ctxt.moveTo(-90, 90);
ctxt.lineTo(90, 90);
ctxt.lineTo(0, -90);

ctxt.closePath();
ctxt.fill();
ctxt.stroke();
```

- c. Test and evaluate your result.
- d. You can press the rotate many times, and can have different triangle at different location, why it's happened?

- e. Clear the canvas
 - a. Put this code to clear the canvas

```
ctxt.clearRect(0, 0, canvas.width, canvas.height);
```

b. Can you write more better clear canvas, to clear all canvas