**Lab4 Assignment**

**Task1：**Complete the following programming projects.

1. Write a program: input 10 integers, use a one dimensional array to preserve them and then output the maximum element. Name your program file **4.1.rap**.
2. Write a program: Randomly generate a two dimensional array. Each element is an integer in the range [1, 100]. The size of this array is also specified by the user. Then output the value and the index of the largest element in this array. Name your program file **4.2.rap**.
3. Write a program: input 16 integers, use a two dimensional array with the size 4˟4 to preserve them and then output the sum of all elements on its main diagonal. Name your program file **4.3.rap**.
4. Use RAPTORgraph to draw :
   1. A clown face
   2. A chessboard of international chess
   3. A simple house
   4. A flower
   5. Maze
   6. Sine curve
   7. A snow-man
   8. A clock face with three needles
   9. **Any figure you are interested in**

Select two graphs and draw them using RAPTORgraph. Name your programs **4.4.rap and 4.5.rap.**

1. Read the program files in the directory [Drawing Examples](Drawing%20Examples), then design and implement a cartoon figure or an animation you are interested in. Name your programs **4.6.rap**.

**Assignment submission:**

You should submit all raptor files into the Directory Lab4 into your network drive. <http://192.168.0.248/inbox/>