HW 4

1. A manager will assign 7 jobs to 7 machines. The cost of finishing a job by machines is given in the table below.

Job		M	achines				
	1	2	3	4	5	6	7
A	85\$	70	60	10	40	23	50
В	6	15	90	76	50	32	65
C	50	80	5	75	15	46	60
D	75	84	82	25	30	53	65
E	20	24	30	14	35	22	40
F	43	56	27	38	29	35	30
G	34	25	44	48	37	38	54

Make an assignment for the minimum total cost. (use Python or Excel Solver)

2. A company has two plans located in Istanbul, one of them is in the European side and the other is in the Anatolian side of Istanbul. Company delivers the product to markets via two warehouses. Table below shows the capacities of the plants and the warehouses and the demands of markets. According to the table given find the minimum shipping cost and routes.

		Markets	demand
warehouse	e	Kayseri	1250
	capacity		_
Ankara	4500	Sivas	3000
			_
	<u></u>	Mersin	4200
Adana	8000		_
		Niğde	2800
			_
		Erzurum	1000
	Ankara	Ankara 4500	warehouse Capacity Ankara 4500 Sivas Mersin Adana 8000 Niğde

Shipping costs (TL, per box)

	Ankara	Adana			Kayseri	Sivas	Mersin	Niğde	Erzurum
Anatolian									
side	1	3	;	Ankara	2	2	4	3	4
European									
side	2	3	;	Adana	3	4	1	1	1