3.4) For design my own optimization problem, I have interest to design in food category. because now a days so many people are showing interest to take good protein food for health purpose,

-> I has to decide the food mix for the people who is a land

-> I has to decided that food mix should be provided to the people in the diet plan. I am providing for 100 people. Diet instructions are each pesson must get atleast, li) one grown of protein, one gram of ison 3 grams of carbohydrates and the carbohydrate content should exceed 6 grams per person in sometimes.

Below table i am observing some food items with availability of pooteing ison and carbohydrate in grs. perky and price for the food item.

	pochein	1801	carbohydrates	Price/kg
chicken	10	2	143/84/	2-2-230
rish	4 2 2	946 L	8	<u> </u>
Bread	2	0	10	20 46
	1 1 1	LEWIS HA	outless 10. A	

Formulate a suitable mathematic model for the above diet mix accuming 100 persons on that day in order to minimize the cost.

Answer: Let 'x' be the quantity in Eds of chicken to be used.

minimize function;

Too 100 persons, the protein quantity is Tox+2y+27 > 100

-> For 100 persons, at least 1gm of iron, per person => 100 gms for 100 per-

→at least 3gm of carbohydrates per person = | By+107 ≥ 300

-> carbohydrates exceed upto 6gm/s only => (8y+10z ≤ 600

-> By solving with CMPY; the optional value is 1230/-