Week-5

CMPE-100 Classwork

1. A manufacturing company measured the productivity of its workers and found that between the hours of 6am and 10am they could produce 30 pieces/hour/worker; between 10am and 2pm they could produce 40 pieces/hour/worker; and between 2pm and 6pm they could produce 35 pieces/hour/worker.

   Develop a function that takes an hour of the day between 6am and 6pm, in twenty-four hour format, along with the number of workers and computes the total number of pieces produced during that hour.

2. A local discount store has a policy of putting labels with dates on all of its new merchandise. If an item has not sold within two weeks the store discounts the item by 25% for the third week, 50% for the fourth week, and 75% for the fifth week. After that no additional discounts are given.

   Develop the function *new-price*, which takes the initial price of an item and the number of weeks since the item was dated and produces the selling price of the item.