Meeting 2: Basic Python Practice

Name :

ID :

Instruction

- Do the questions below by writing the ***python*** code in the cells provided.
- The answer requested by the question must be printed as the ***output*** of each cell.
- Leave enough comments on the code so that it can be understood by others.
- In this assignment it is not allowed to use the ***library/*** Total
- score available is 120 (100 out of 3 questions that must be answered + 20 points from bonus/ optional questions).
- When finished, send the jupyter notebook file (.ipynb) via LMS.
- Make sure the file name and also the Name and NIM are filled correctly.
- The deadline for submitting assignments is October 12 23:59.

Question 1: Accounts Receivable (20%)

Given a list to record transactions in the accounts receivable value account, in the list there is 1 item as an initial value of 5,500,000.

1. Record the following transactions on the previously created list. (15%)
    - Make sales to customers on credit worth Rp 10,000,000 Receive payments for trade receivables
    - from customers Rp 5,300,000 Receive payments for trade receivables from customers Rp
    - 3,500,000 Make sales to customers on credit worth Rp 4,000,000
    -
2. Print and Calculate the total balance of the accounts receivable after the 4 transactions. (5%)

In [ ]:

```
# initial value of accounts
receivable_trade = [ 5500000 ]

# record transactions related to accounts receivable accounts

# print the contents of the accounts receivable and the balance
```

Problem 2: FIFO and LIFO (40%)

It is known that a store has a stock of electronic goods (10 items of the same type and specifications) with different basic prices. The following list is a list of the inventory that the store has and is in order according to the time of purchase (old to new).

[10,350,000, 10,340,000, 10,346,000, 10,320,000, 10,300,000, 10,300,000, 10,340,000, 10,350,000, 10,120,000, 10,100,000]

Question:

1. Make a list to store the value of inventory held by the store. (5%)
2. What is the total value of inventory items owned by the store. (5%)
3. If one day after that the store managed to sell 3 items of merchandise.
   Print a list of available items after using 2 scenarios of flow of goods ***(Last in First Out)*** and ***(First in First Out).*** (20%)
4. What is the Total Value of Inventory after 3 items are sold, with the two scenarios. (10%)

In [ ]:
```
# total value of inventory items owned by the store.
```

In [ ]:
```
# list of inventory items after sale
```

In [ ]:
```
# total value of inventory items after sale
```

Problem 3: Depreciation of Fixed Assets (40%)

Write a function with the name ***count_depreciation*** to calculate the amount of depreciation of fixed assets per period using the straight-line method.

- The required input is book value , residual value and period benefit .
- book value, salvage value, useful life cannot be negative.
- Implement the function in the following case.

- Calculate depreciation for an asset worth 100 million rupiah with an estimated residual value of 10 million whose useful life is 5 years
- Calculate depreciation for an asset worth 1.5 billion rupiah with an estimated salvage value of 100 million whose useful life is 15 years

In [9]:

```
# depreciation function

def count_depreciation(book_value, residual_value, useful_life):
    # answer

    return
```

In [ ]:

```
# Function Implementation
```

Bonus Question (Optional): Employee Picket (20%)

In an office there are six employees named Doni, Jaka, Ari, Budi, Koko and Rozak.
They agreed to take turns taking turns doing their duty to guard the information service room in their office. Each person will sequentially take turns guarding each day. If it reaches the sixth person, it will return to the first person.

Based on this information, look for Information:

1. If Budi is the person who is on guard on the 1st day, who will be the person who will be on guard on the 1st day? day 50? (10%)
2. If Rozak is the one who is watching on the 4th day, who will be the one who will be watching on day 165? (10%)

In [17]:

```
# initiation of picket order
schedule_picket = ['Doni', 'Jaka', 'Ari', 'Budi', 'Koko', 'Rozak']

# question 1


# question 2
```