

Presidency International School
Pre-Release Material 2019
O Level
Pseudocode Solve

#TASK 1

```
DECLARE item_number[] : ARRAY of INT
DECLARE item_name[] : ARRAY of STRING
DECLARE item_description[]: ARRAY of STRING
DECLARE item_reservedPrice[]: ARRAY of FLOAT
DECLARE item_HighBids[]: ARRAY of FLOAT
DECLARE item_numberOfBidsCount[]: ARRAY of INT

INPUT item
WHILE item <10
    PRINT ("Minimum 10 items. How many items to be sold: ")
    INPUT item
ENDWHILE

FOR index <- 0 TO item
    item_bids[index] = 0
NEXT index

FOR index <- 0 TO item
    item_numberOfBidsCount[index] = 0
NEXT index

FOR index <- 0 TO item
    PRINT ("Enter unique item number: ")
    INPUT number

    while number EXISTS IN item_number
        PRINT ("Item number already exist. Enter unique item number: ")
        INPUT number
    ENDWHILE

    item_number[index]<- number
    PRINT ("Enter item name: ")
    INPUT name
    item_name[index] <- name
    PRINT ("Enter item description: ")
    INPUT description
    item_description[index] <- description
    PRINT ("Enter item reserved price: ")
    INPUT reservedPrice
    item_reservedPrice[index] <- reservedPrice

NEXT index
```

#TASK 2

```
PRINT ("Enter item no. Press -1 to Stop")
INPUT i_number
WHILE i_number <> -1:
    position <- -1
    FOR count <- 0 TO item
        IF i_number = item_number[count]:
            THEN position <- count
            PRINT("Item Name: ", item_name[position])
            PRINT("Item Description: ", item_description [position])
            PRINT("Current highest bid: ", item_HighBids[position])
            PRINT ("Do you want to bid? Y/N: ")
            INPUT buyer_bid
            IF buyer_bid = "Y" OR buyer_bid = 'y':
                THEN INPUT buyer_id
                INPUT bid_amount
                IF bid_amount > item_HighBids[position]:
                    THEN item_HighBids[position] <- bid_amount
                    item_numberOfBidsCount[position] <-
                        item_numberOfBidsCount[position] + 1
                ENDIF
            ENDIF
        ENDIF
    NEXT count

    IF(position = -1):
        THEN PRINT ("NO ITEM FOUND")

    ENDIF
    PRINT ("Enter item no. Press -1 to Stop")
    INPUT i_number
ENDWHILE
```

#TASK 3

```
Total_amount <- 0
Total_sold <- 0
Total_unsold <- 0
Total_nobid <- 0
DECLARE Sold[]: ARRAY of INT
DECLARE Unsold[]: ARRAY of INT
DECLARE Nobid[]: ARRAY of INT

FOR count <- 0 TO item:
    IF item_numberOfBidsCount[count] > 0:
        THEN IF item_HighBids[count] > item_reservedPrice[count]:
            THEN Sold <- item_number[count]
            Total_sold <- Total_sold+1
            Total_amount <- Total_amount+i_HighBids[count]
        ELSE:
            Unsold <- item_number[count]
            Total_unsold <- Total_unsold + 1
        ENDIF
    ELSE:
        Nobid <- item_number[count]
        Total_nobid <- Total_nobid + 1
    ENDIF

NEXT count

PRINT total_amount*1.10
PRINT ("Total Sold", Totalsold)
PRINT ("Total unsold", Totalunsold)
PRINT ("Total nobid", Totalnobid)
PRINT (Sold)
PRINT (Unsold)
PRINT (Nobid)
```