## #TASK 1

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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
```

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#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)
```