**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)