bookingNum = 0

continueFlag = TRUE

WHILE continueFlag = TRUE

ticketType = 0

numPeople = 0  
 numAdults = 0  
 numChildren = -1  
 numChildrenTickets = -1   
 numSeniors = 0  
 numFamily = 0  
 numGroup = 0  
 numPenguin = 0  
 numLion = 0  
 numBBQ = 0

dayChoice = 0  
 extraChoice = 1  
 dayChoice = 0

totalPrice = 0.00

individual = 2  
 proceed = “1”

bookingNum = bookingNum + 1

OUTPUT “”

WHILE dayChoice < 1 OR dayChoice > 7

OUTPUT “Please enter the day of visit from available days shown (1-  
 7): ”

INPUT dayChoice

IF dayChoice < 1 OR dayChoice > 7 THEN

OUTPUT “ERROR: Please enter a valid day from the days shown   
 above (1-7).”

END IF

ENDWHILE

OUTPUT “Please enter the number of adults visiting: ”

INPUT numAdults

WHILE numChildren > (numAdults \* 2) or numChildren = -1

OUTPUT “Please enter the number of children visiting: ”

INPUT numChildren

IF numChildren > (numAdults \* 2) THEN

OUTPUT “ERROR: Maximum 2 children allowed per adults.”

ENDIF

ENDWHILE

OUTPUT “Please enter the number of seniors visiting: ”

INPUT numSeniors

WHILE ticketType <> 1 AND TicketType <> 2

OUTPUT “Please enter your ticket type (One-Day: enter 1, Two-Day:   
 enter 2): ”

INPUT ticketType

IF ticketType <> 1 AND ticketType <> 2 THEN

OUTPUT “ERROR: Please enter a valid ticket type.”

ENDIF

ENDWHILE

WHILE individual < 0 OR individual > 1

OUTPUT “Would you like to make individual bookings? (Yes – 1, No –   
 0): ”

INPUT individual

IF individual < 0 OR individual > 1 THEN

OUTPUT “ERROR: Please enter a valid input (Yes – 1, No – 0).”

ENDIF

ENDWHILE

IF individual = 1 THEN

OUTPUT “Please enter the number of Adult tickets you wish to   
 purchase:”

INPUT numAdults

WHILE numChildrenTickets > (numAdults\*2) OR numChildrenTickets = -1

OUTPUT “Please enter the number of Children tickets you wish   
 to purchase:”

INPUT numChildrenTickets

IF numChildren > (numAdults \* 2) THEN

OUTPUT “ERROR: Maximum 2 children allowed per adult.”

ENDIF

ENDWHILE

OUTPUT “Please enter the number of Senior tickets you wish to   
 purchase:”

INPUT numSeniors

ELSE

OUTPUT “Please enter the number of Family tickets you wish to   
 purchase:”

INPUT numFamily

OUTPUT “Please enter the number of Group tickets you wish to   
 purchase: ”

INPUT numGroup

ENDIF

numPeople = numAdults + numChildren + numSeniors

IF ticketType = 1 THEN

totalPrice = (numAdults \* ticketPricesOneDay[1]) +   
 (numChildren \* ticketPricesOneDay[2]) +  
 (numSeniors \* ticketPriceOneDay[3]) +  
 (numFamily \* ticketPriceOneDay[4]) +  
 (numGroup \* ticketPriceOneDay[5])

ELSE

totalPrice = (numAdults \* ticketPricesTwoDays[1]) +   
 (numChildren \* ticketPricesTwoDays[2]) +  
 (numSeniors \* ticketPricesTwoDays[3]) +  
 (numFamily \* ticketPricesTwoDays[4]) +  
 (numGroup \* ticketPricesTwoDays[5])

ENDIF

OUTPUT “Would you like to book an extra attraction? (Yes – 1, No – 0): ”

INPUT extraChoice

IF extraChoice = 1 THEN

OUTPUT “Please enter the number of tickets for Lion Feeding: ”

INPUT numLions

OUTPUT “Please enter the number of tickets for Penguin Feeding: ”

INPUT numPenguin

IF ticketType = 2 THEN

OUTPUT “Please enter the number of tickets for BBQ: ”

INPUT numBBQ

ELSE

OUTPUT “BBQ not applicable on one-day tickets.”

ENDIF

totalPrice = totalPrice + (numLion \* extraAttractionsPrices[1]) +   
 (numPenguin \* extraAttractionsPrices[2]) + (numBBQ \*   
 extraAttractionsPrices[3])

ENDIF

IF ((numAdults \* numSeniors) MOD 2 = 0) AND (numChildren MOD 3 = 0) AND   
 (numChildren = (2/3) \* (numAdults + numSeniors)) THEN

bestOption = ticketTypes[4]

ELSEIF numPeople >= 6 THEN

bestOption = ticketTypes[5]

ELSE

bestOption = “Individual”

ENDIF

IF (bestOption = “Individual” AND individual <> 1) OR (bestOption =   
 ticketTypes[5] AND numGroup = 0) OR (bestOption = ticketTypes[4] AND   
 numFamily = 0) THEN

OUTPUT “The ticket options chosen are not the best value.”

IF bestOption = “Individual” THEN

OUTPUT “The best value option is: Individual Ticket(s)”

ELSEIF bestOption = ticketTypes[5] THEN

OUTPUT “The best value option is: Group Ticket”)

ELSEIF bestOption = ticketTypes[4] THEN

OUTPUT “The best value option is: Family Ticket(s)”

ENDIF

OUTPUT “Would you like to proceed with your current booking? (1/0)”

INPUT proceed

ENDIF

IF proceed = 0 THEN

continueFlag = True

ELSE

OUTPUT “BOOKING DETAILS”

OUTPUT “Booking Number:” & bookingNum

OUTPUT “Day of Visit:” & days[dayChoice]

IF ticketType = 1 THEN

IF individual = 1 THEN

IF numAdults > 0 THEN

OUTPUT “Ticket: Adult (One Day) | Num of tickets: ”   
 & numAdults & “ | Price per ticket: ” &   
 ticketPricesOneDay[1]

ENDIF

If numChildren > 0 THEN

OUTPUT “Ticket: Child (One Day) | Num of tickets: ”   
 & numChildren & “ | Price per ticket: ” &   
 ticketPricesOneDay[2]

ENDIF

If numSeniors > 0 THEN

OUTPUT “Ticket: Senior (One Day) | Num of tickets: ”   
 & numSeniors & “ | Price per ticket: ” &   
 ticketPricesOneDay[3]

ENDIF

ELSE

If numFamily > 0 THEN

OUTPUT “Ticket: Family [2 Adults/Seniors + 3   
 Children] (One Day) | Num of tickets: ”   
 & numFamily & “ | Price per ticket: ” &   
 ticketPricesOneDay[4]

ENDIF

If numGroup > 0 THEN

OUTPUT “Ticket: Group [2 Adults/Seniors + 3   
 Children] (One Day) | Num of tickets: ”   
 & numGroup & “ | Price per ticket: ” &   
 ticketPricesOneDay[5]

ENDIF

ENDIF

ELSE // if (ticketType = 2)

IF individual = 1 THEN

IF numAdults > 0 THEN

OUTPUT “Ticket: Adult (Two Days) | Num of tickets: ”   
 & numAdults & “ | Price per ticket: ” &   
 ticketPricesTwoDays[1]

ENDIF

If numChildren > 0 THEN

OUTPUT “Ticket: Child (Two Days) | Num of tickets: ”   
 & numChildren & “ | Price per ticket: ” &   
 ticketPricesTwoDays [2]

ENDIF

If numSeniors > 0 THEN

OUTPUT “Ticket: Senior (Two Days) |Num of tickets: ”   
 & numSeniors & “ | Price per ticket: ” &   
 ticketPricesTwoDays[3]

ENDIF

ELSE

If numFamily > 0 THEN

OUTPUT “Ticket: Family [2 Adults/Seniors + 3   
 Children] (Two Days) | Num of tickets: ”   
 & numFamily & “ | Price per ticket: ” &   
 ticketPricesTwoDays[4]

ENDIF

If numGroup > 0 THEN

OUTPUT “Ticket: Group [2 Adults/Seniors + 3   
 Children] (Two Days) | Num of tickets: ”   
 & numGroup & “ | Price per ticket: ” &   
 ticketPricesTwoDays[5]

ENDIF

ENDIF

ENDIF

IF numLion > 0 THEN

OUTPUT “Extra Attraction: Lion Feeding | Price Per Person: $”   
 & extraAttractionPrices[1]

ENDIF

IF numPenguin > 0 THEN

OUTPUT “Extra Attraction: Penguin Feeding | Price Per Person:   
 $” & extraAttractionPrices[2]

ENDIF

IF numBBQ > 0 THEN

OUTPUT “Extra Attraction: Evening Barbeque | Price Per Person:   
 $” & extraAttractionPrices[3]

ENDIF

OUTPUT “Total Cost: $” & totalPrice

WHILE continueFlag <> 1 AND continueFlag <> 0

OUTPUT “Would you like to make another booking? (1/0):”

INPUT continueFlag

IF continueFlag <> 1 AND continueFlag <> 0 THEN

OUTPUT “ERROR: Please enter a valid response (1/0).”

ENDIF

ENDWHILE

ENDIF

ENDWHILE