



FLY HIGH AIRLINE

AIRLINE TICKET BOOKING SYSTEM

Presentation by

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INTRODUCTION

- Need for an airfare price calculating system that can accurately calculate the ticket prices for customers based on their age and the country they choose to travel.
- The system will take the input from the user regarding the number of families, their ages and the destination they want to travel.
- The system provides promotional discounts on the total ticket price for customers who book their ticket during the festival month. The promotional discounts are based on the country they selected too.
- Useful for travel agencies and airlines who want to provide a seamless booking experience to their customers.



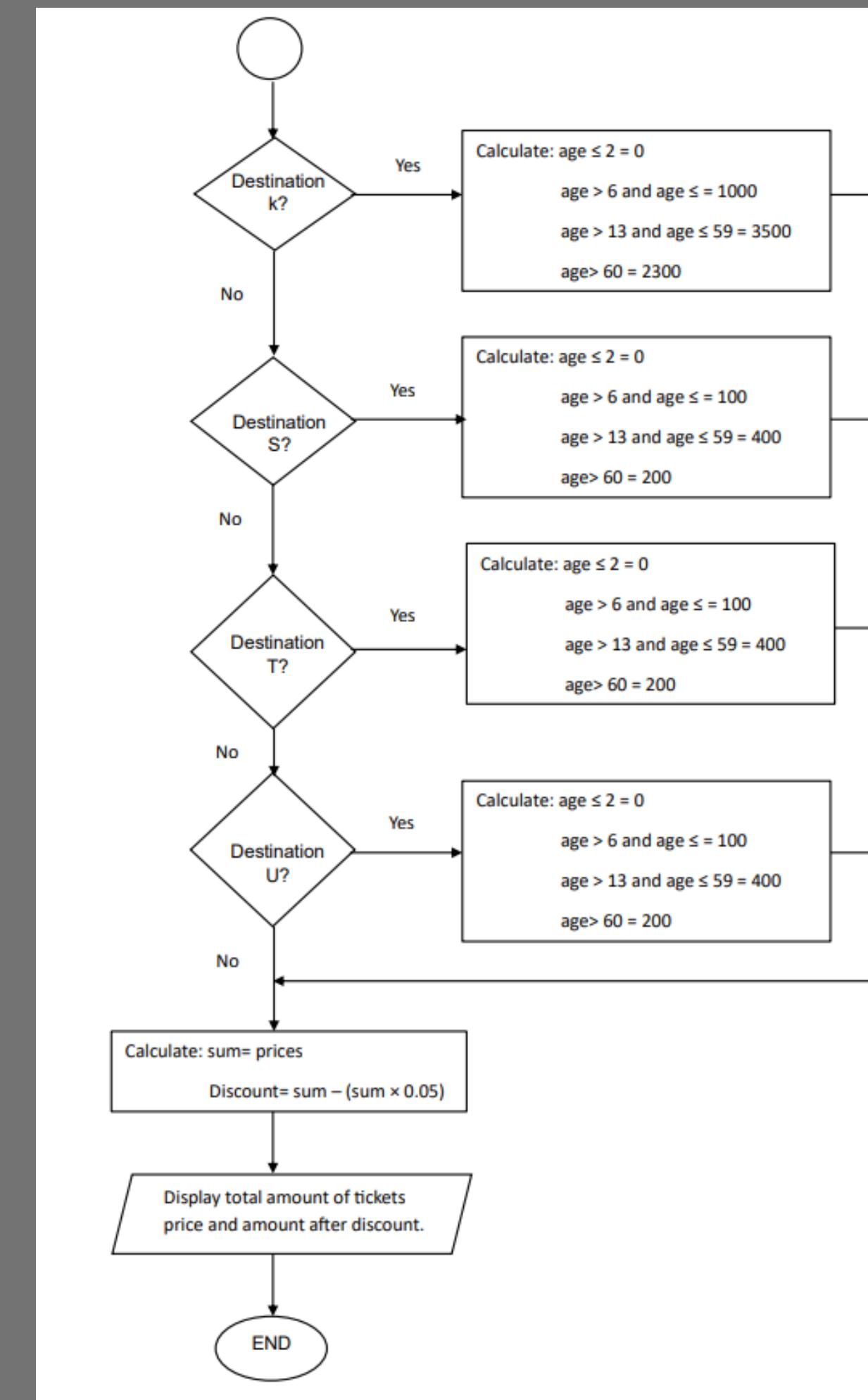
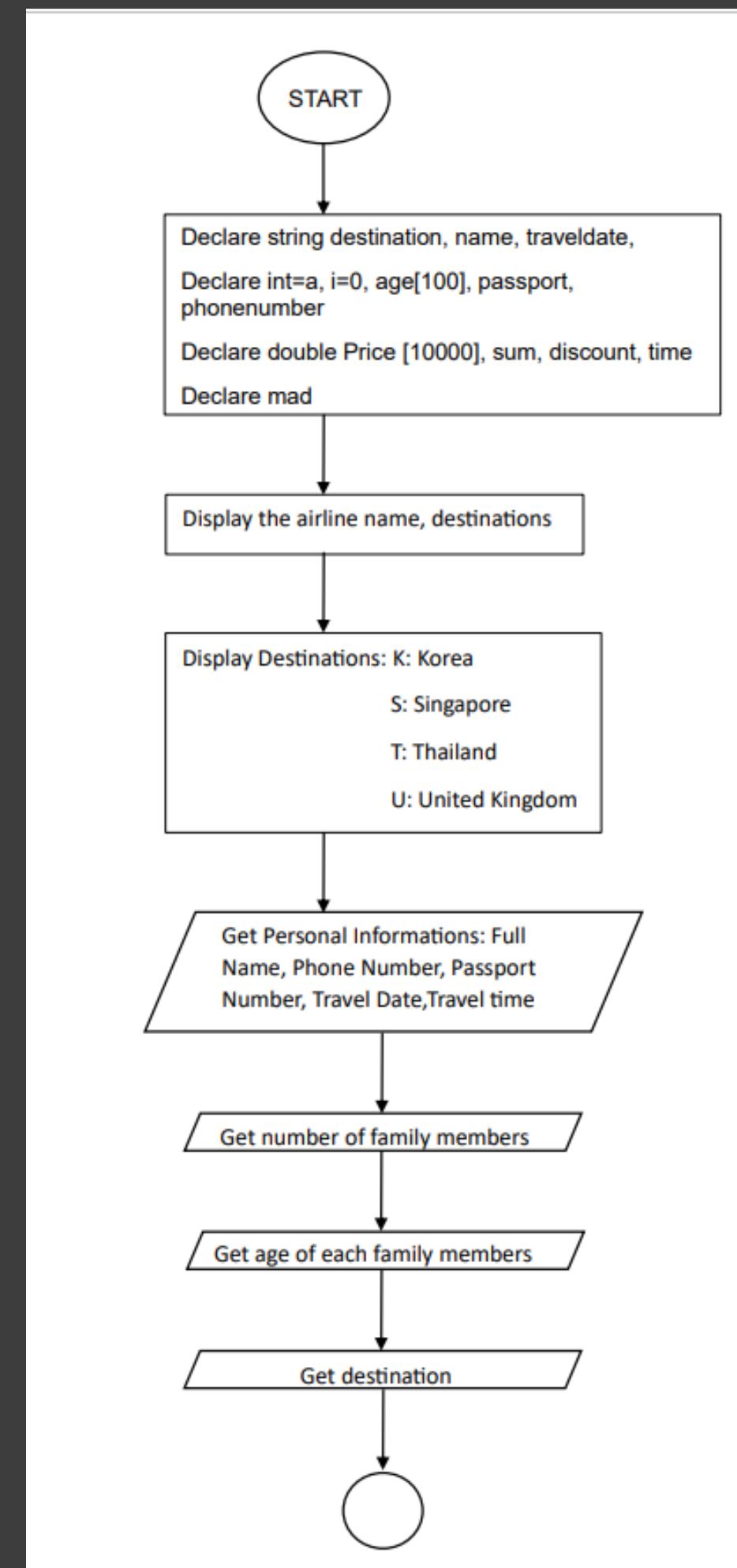
OBJECTIVE

2



1. Determine the cost of the tickets based on the passenger's age and the countries they select as their destination.
2. To give customers an efficient ticket booking experience.
3. Provide customers with a special discount based on the destination country they choose during the festival month.
4. Make sure that the ticket pricing and discounts are calculated accurately to prevent any trouble for the customers.

FLOW CHART



flight ticket booking own.cpp

```
1 # include <iostream>
2 # include <iomanip>
3 # include <iomanip> // for manipulating the output format--> provide manipulators like- setprecision(2),
4 using namespace std;
5
6 int main()
7 {
8     string destination, name, traveldate;
9     int s, i=0, age[100], passport, phonenumbers;
10    double Price[10000], sum, discount, time;
11    char mas;
12
13
14
15    cout<< setprecision (2) << fixed ;
16    cout<< "                                FLY HIGH AIRLINE" << endl;
17    cout<< "*****" << endl;
18    cout<< "*****" << endl;
19    cout<< "-----" << endl;
20    cout<< "-----" << endl;
21    cout<< "-----" << endl;
22    cout<< "-----" << endl;
23    cout<< "-----" << endl;
24    cout<< "-----" << endl;
25    cout<< "-----" << endl;
26    cout<< "*****" << endl;
27    cout<< "-----" << endl;
28    cout<< "-----" << endl;
29    cout<< "-----" << endl;
30    cout<< "-----" << endl;
31    cout<< "-----" << endl;
32    cout<< "-----" << endl;
33    cout<< "-----" << endl;
34    cout<< "-----" << endl;
35
36    //personal information
37    cout<< "Enter your full name: " << endl;
38    cin>> name;
39    cout<< "Passport Number: " << endl;
40    cin>> passport;
41    cout<< "Phone number (Exp:0102233493): " << endl;
42    cin>> phonenumbers;
43    cout<< "Travel date, d/m/y (Exp:8/5/2023) : " << endl;
```

CODING

```
flight ticket booking own.cpp
41     cin>> phonenumbers;
42     cout<< "Travel date, d/m/y (Exp:8/5/2023) :" << endl;
43     cin>> traveldates;
44     cout<< "Travel time, GMT+ (Exp: 1730 or 0530):" << endl;
45     cin>> times;
46
47     cout<< "
48     cout<< "\nHow many members in your family?\n" ;
49     cin>> a; // numbers in your family
50     cout<<""
51
52     cout<< "Enter the age of your " << a << " family member:\n" ;
53     for (i=0; i<a; i++) // i=0 initializes loop variable, starting value is 0, (so where the loop will check before each iteration (as long as the value of "i" less than a, it will continue a
54     {
55         cin>> age[i];
56     }
57     cout<< "
58     cout<< "Enter your destination (K/S/T/U): ";
59     cin>> destination;
60
61
62     switch (destination[0]) // refer to the first character of a string named " destination"
63         // if the value of destination matches a "case" value, the corresponding code block is disassociated with that "case" executed.
64     {
65         case 'K':
66             for (i=0; i<a; i++)
67             {
68                 if (age[i] <= 2)
69                 {
70                     Price[i] = 0;
71                     cout<< "Toddlers don't need seat" << endl;
72                 }
73
74                 else if (age[i] > 6 && age[i] <= 12)
75                 {
76                     Price[i]= 1000;
77                 }
78
79                 else if (age[i] > 13 && age[i] <= 59)
80                 {
81                     Price[i]= 3500;
82                 }
83             }
84         }
85     }
86 }
```

CODING

```
flight ticket booking own.cpp
85     else if (age[i] > 60)
86     {
87         Price[i]= 2300;
88     }
89
90     sum += Price[i];
91     discount = sum-(sum*0.05);
92 }
93 cout<< "
94 cout<< "      Total amount of your tickets is: RM "<< sum << endl;
95 cout<< "      Price after discount: RM "<< discount << endl;
96 cout<< "
97 cout<< "      Your tickets have been booked successfully.    "<< endl;
98 cout<< "      The receipt have been sent to your Whatsapp.   "<< endl;
99 cout<< "
100 cout<< "
101 cout<< "
102 cout<< "      WE ARE READY WHEN YOU ARE,HAVE A SAFE RIDE WITH US    "<< endl;
103
104
105 break;
106
107 case 'S':
108     for (i=0; i<a; i++)
109     {
110         if (age[i] <= 2)
111         {
112             Price[i] = 0;
113             cout<< "Toddlers dont need seats" << endl;
114         }
115
116         else if (age[i] > 6 && age[i] <= 12)
117         {
118             Price[i]= 100;
119         }
120
121
122         else if (age[i] > 13 && age[i] <= 59)
123         {
124             Price[i]= 400;
125         }
126
127         else if (age[i] >= 60)
128     }
```

```
127
128     else if (age[i] >= 60)
129     {
130         Price[i]= 200;
131     }
132
133     sum += Price[i];
134     discount = sum-(sum*0.05);
135 }
136
137 cout<< "
138 cout<< "      Total amount for your tickets is: RM "<< sum << endl;
139 cout<< "      Price after discount: RM "<< discount << endl;
140 cout<< "
141 cout<< "      Your tickets have been booked successfully.    "<< endl;
142 cout<< "      The receipt have been sent to your Whatsapp.   "<< endl;
143 cout<< "
144 cout<< "
145 cout<< "
146 cout<< "      WE ARE READY WHEN YOU ARE,HAVE A SAFE RIDE WITH US    "<< endl;
147
148 break;
149
150 case 'T':
151     for (i=0; i<a; i++)
152     {
153         if (age[i] <= 2)
154         {
155             Price[i] = 0;
156             cout<< "Toddlers dont need seats" << endl;
157         }
158
159         else if (age[i] > 6 && age[i] <= 12)
160         {
161             Price[i]= 250;
162         }
163
164         else if (age[i] > 13 && age[i] <= 59)
165         {
166             Price[i]= 500;
167         }
168
169
170 }
```

```

169 }
170
171 else if (age[i] >= 60)
172 {
173     Price[i]= 200;
174 }
175
176 sum += Price[i];
177 discount = sum-(sum*0.05);
178 }
179 cout<< "                                     << endl;
180 cout<< "      Total amount of your tickets is: RM" << sum << endl;
181 cout<< "      Price after discount: RM " << discount << endl;
182 cout<< "                                     << endl;
183 cout<< "      Your tickets have been booked successfully.    << endl;
184 cout<< "      The receipt have been sent to your Whatsapp.   " << endl;
185 cout<< "                                     << endl;
186 cout<< "                                     << endl;
187 cout<< "                                     << endl;
188 cout<< "----- WE ARE READY WHEN YOU ARE,HAVE A SAFE RIDE WITH US -----" << endl;
189
190 break;
191
192 case 'U':
193
194 for (i=0; i<a; i++)
195 {
196     if (age[i] <= 2)
197     {
198         Price[i] = 0;
199         cout<< "Todlers dont need seats" << endl;
200     }
201
202     else if (age[i] > 6 && age[i] <= 12)
203     {
204         Price[i]= 1150;
205     }
206
207     else if (age[i] > 13 && age[i] <= 59)
208     {
209         Price[i]= 4500;
210     }
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
}

```

```

194 for (i=0; i<a; i++)
195 {
196     if (age[i] <= 2)
197     {
198         Price[i] = 0;
199         cout<< "Todlers dont need seats" << endl;
200     }
201
202     else if (age[i] > 6 && age[i] <= 12)
203     {
204         Price[i]= 1150;
205     }
206
207     else if (age[i] > 13 && age[i] <= 59)
208     {
209         Price[i]= 4500;
210     }
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
}

```

CONTROL STRUCTURES

SEQUENTIAL

- Flow of statements in the code that are executed one after the other in the order in which they are written.
- Exp: The statements to prompt the user for input, get the user input, and calculate the ticket prices are all executed sequentially.

SELECTION

- Used conditional statements (such as if-else or switch) to select different actions to take based on certain conditions.
- Exp: switch statement is used to select different ticket prices based on the destination entered by the user
- And the if-else statements was used to select different prices based on the age of each family member.

ITERATION

- This refers to using loops (such as for or while) to repeat a block of code multiple times.
- In this code, the for loop is used to iterate over each family member and calculate their ticket price.

TESTING 1

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```
C:\Users\sking\Downloads\fl X + ▾
FLY HIGH AIRLINE
*****
-----
| Ticket booking system |
| Hari Raya Promotion |
-----
*****
Destinations
K: Korea
S: Singapore
T: Thailand
U: United Kingdom

Enter your full name:
pavi
Passport Number:
27
Phone number (Exp:0102233493):
0149866138
Travel date, d/m/y (Exp:8/5/2023) :
10/5/2023
Travel time, GMT+ (Exp: 1730 or 0530):
0900
```

```
How many members in your family?
2

Enter the age of your 2 family member:
20
22

Enter your destination (K/S/T/U): T

Total amount of your tickets is: RM1000.00
Price after discount: RM 950.00

Your tickets have been booked successfully.
The receipt have been sent to your Whatsapp.

-----
WE ARE READY WHEN YOU ARE, HAVE A SAFE RIDE WITH US
-----
Process exited after 78.82 seconds with return value 0
Press any key to continue . . .
```

TESTING 2

10

```
C:\Users\sking\Downloads\f1 * + * FLY HIGH AIRLINE **** Ticket booking system Hari Raya Promotion ----- Destinations K: Korea S: Singapore T: Thailand U: United Kingdom Enter your full name: yaashiny Passport Number: 5 Phone number (Exp:0102233493): 01111920753 Travel date, d/m/y (Exp:8/5/2023) : 21/5/2023 Travel time, GMT+ (Exp: 1730 or 0530): 1030
```

How many members in your family?

5

Enter the age of your 5 family member:

50

50

25

20

15

Enter your destination (K/S/T/U): S

Total amount for your tickets is: RM 2000.00

Price after discount: RM 1900.00

Your tickets have been booked successfully.

The receipt have been sent to your Whatsapp.

----- WE ARE READY WHEN YOU ARE, HAVE A SAFE RIDE WITH US -----

Process exited after 142.8 seconds with return value 0

Press any key to continue . . . |

```
C:\Users\sking\Downloads\f1  X  +  ▾  
FLY HIGH AIRLINE  
*****  
-----  
|  
| Ticket booking system  
| Hari Raya Promotion  
|  
-----  
*****  
Destinations  
  
K: Korea  
S: Singapore  
T: Thailand  
U: United Kingdom  
  
Enter your full name:  
diwesh  
Passport Number:  
9  
Phone number (Exp:0102233493):  
01133391592  
Travel date, d/m/y (Exp:8/5/2023) :  
7/5/2023  
Travel time, GMT+ (Exp: 1730 or 0530):  
0530
```

```
How many members in your family?  
3  
  
Enter the age of your 3 family member:  
22  
20  
17  
  
Enter your destination (K/S/T/U): U  
  
Total amount of your tickets is: RM 13500.00  
Price after discount: RM 12825.00  
  
Your tickets have been booked successfully.  
The receipt have been sent to your Whatsapp.  
  
-----  
WE ARE READY WHEN YOU ARE, HAVE A SAFE RIDE WITH US  
  
-----  
Process exited after 198.8 seconds with return value 0  
Press any key to continue . . . |
```

TESTING 4

12

```
C:\Users\sking\Downloads\f1  X  +  ▾  
FLY HIGH AIRLINE  
*****  
-----  
| |  
| Ticket booking system |  
| Hari Raya Promotion |  
| |  
-----  
*****  
Destinations  
  
K: Korea  
S: Singapore  
T: Thailand  
U: United Kingdom  
  
Enter your full name:  
abitha  
Passport Number:  
14  
Phone number (Exp:0102233493):  
01155006138  
Travel date, d/m/y (Exp:8/5/2023) :  
22/5/2023  
Travel time, GMT+ (Exp: 1730 or 0530):  
1200
```

How many members in your family?
4

Enter the age of your 4 family member:
55
35
34
15

Enter your destination (K/S/T/U): K

Total amount of your tickets is: RM 14000.00
Price after discount: RM 13300.00

Your tickets have been booked successfully.
The receipt have been sent to your Whatsapp.

WE ARE READY WHEN YOU ARE, HAVE A SAFE RIDE WITH US

Process exited after 126.9 seconds with return value 0
Press any key to continue . . .

CONCLUSION

13

- The ticket booking system implemented in this program allows customers to input their personal information, including their name, passport number, phone number, travel date and time, and the number of family members traveling with them.
- Calculates the total cost of the tickets based on the destination and age of the passengers, with a 5% discount applied to the total price.
- Overall, this program provides a simple and efficient solution for booking airline tickets and could be further developed with additional features to enhance the customer experience.





Airline Ticket Booking System



THANK YOU