LAB TEST

(16/1/2021)

Sri Purnama bus company wants to provide a computer system to facilitate ticket payments. The company provides 6 travel destinations namely Butterworth, Sungai Petani, Kangar, Taiping, Baling and Kuala Kangsar. The ticket price for each destination is as below.

DESTINATION	PRICE
Butterworth	RM35
Sungai Petani	RM45
Kangar	RM65
Taiping	RM25
Baling	RM50
Kuala Kangsar	RM18

This bus company provides 10% discount on ticket prices for Kuala Kangar and Baling destinations if the customer makes a purchase of more than 3 tickets. Other destinations aren't included.

When a ticket buyer pays a certain amount of money, the system will calculate the balance that should be given to the ticket buyer. Examples of the outputs are as follows:

Sri Purnama Bus Company

Destination	:	K
Number of ticket	:	3
Amount paid by the ticket buyer	:	150
Price of the tickets	:	130
Discount	:	0
Balance	:	33

Do you want to continue (y / n) :

Use the codes below to represent the destination.

B	Butterworth
S	Sungai Petani
K	Kangar
T	Taiping
G	Baling
L	Kuala Kangsar

ANSWER:

```
#include <iostream.h>

void main()
{
   char again, place;
   int quantity;
   float price=0;
   float price_to_pay;

   cout<<"Do you want to continue Yes[Y]/No[N]:";
   cin>>again;

   while (again!='N')
   {

      cout<<"Enter type of place : Butterworth[B],
SungaiPetanoi[S], Kangsar[K], ";
      cout<<"Taiping[T], Baling[B], KualaKangsar[G] : ";
      cin>>place;
      cout<<" Enter the quantity : ";
      cin>>quantity;

cout<<"=================================================
========"<<endl;

      switch (place)
      {
         case 'W':
            price=quantity*35;
            break;
```

```
            case 'S':
               price=quantity*45;
               break;
            case 'K':
               price=quantity*65;
               break;
            case 'T':
               price=quantity*25;
               break;
            case 'B':
               price=quantity*50;
               break;
            case 'G':
               price=quantity*18;
               break;
            default:
               cout<<"Invalid type\n";
         }

         if ((place !='G') && (quantity>=3))
            price_to_pay=price*0.1;
         else if ((place !='B') && (quantity>=3))
            price_to_pay=price*0.1;
         else
            price_to_pay=price;

         cout<<"\n"<<endl;

         cout<<"BILL FOR YOUR TICKETS "<<endl;

cout<<"++++++++++++++++++++++++++++++++++++++++++++++++++++++++
++"<<endl;
         cout<<"Total price   :"<<price<<endl;
         cout<<"Discount      :"<<price - price_to_pay<<endl;
         cout<<"Amount paid   :"<<price_to_pay<<endl;

cout<<"++++++++++++++++++++++++++++++++++++++++++++++++++++++++
++"<<endl;
         cout<<"Do you want to continue Yes[Y]/No[N]:";
         cin>>again;
      }
}
```