Write a program to find the average expenditure of a company for each month of each year, each year and average over the range of years specified. Use arrays to construct a table, display the table of expenditure and find the sum and average.

```
#include <stdio.h>
// header file for console input output
// month data type and its equivalent string
enum month {jan, feb, mar, apr, may, june, july, aug, oct, nov, sep, dec};
const char*
month[]={"jan","feb","mar","apr","may","june","july","aug","oct","nov","sep","dec"
};
int main()
{
 // Declaration of data
 int startingYear;
 int totalNoOfYears;
 printf("Enter the year from which your want to start tracking expenses");
 scanf(" %d",&startingYear);
 printf("Enter total no of years for which your want to calcuate");
 scanf(" %d",&totalNoOfYears);
 // Declaration of array
 int expMonth[totalNoOfYears][12];
 int yearlyAvg[totalNoOfYears];
 int monthlyAvg[] = {0,0,0,0,0,0,0,0,0,0,0,0};
 int total= 0;
 int i;
 printf("Enter the expenditure for given months of the year");

 for (i = 0;i < totalNoOfYears; i++ )
  {
   printf("For year %d\n",startingYear+i);
       yearlyAvg[i] = 0;
   enum month mon;
   for (mon = jan; mon <= dec; mon++)
       {
        printf("For month: %s",month[mon]);
        scanf(" %d",&expMonth[i][mon]);
        yearlyAvg[i] += expMonth[i][mon];
        monthlyAvg[mon] += expMonth[i][mon];
        total += expMonth[i][mon];
```

```
        }
    printf("\n");
  }
 // displaying the table
 // table header
 enum month mon;
 printf("year |");
 for (mon = jan; mon <= dec; mon++)
        {
          printf(" %s |",month[mon]);
        }
 printf("Avg");
 printf("\n");
 // table body
 for (i = 0; i < totalNoOfYears; i++)
  {
    enum month mon;
    printf("%d |",i+startingYear);
    for (mon = jan; mon < dec; mon++)
        {
          printf(" $%d |",expMonth[i][mon]);
        }
    printf(" $%d",yearlyAvg[i]/12);
    printf("\n");
  }
 // monthly average
 printf("Avg |");
 for (mon = jan; mon < dec; mon++)
  {
    printf(" $%d |",monthlyAvg[mon]/totalNoOfYears);
  }

 printf("\n Total Expenditure $%d",total);
 printf("\n Average monthly Expediture $%d",total/(totalNoOfYears*12));
 return 0;
}

#include<stdio.h>//or
#include<windows.h>
int main()
```

```
{
   printf("Enter no of years to be added:\t");
   int no_of_years;
   scanf("%d",&no_of_years);
   float finance[no_of_years+1][14];
   int i,j;
   float temp;
   for(i=0;i<no_of_years;i++)
   {
      printf("Enter year:\t");
      scanf("%f",&finance[i][0]);
      temp=0;
      for(j=0;j<12;j++)
      {
         switch(j)
         {
         case(0):
            printf("january:\t");
            break;
         case(1):
            printf("february:\t");
            break;
         case(2):
            printf("March:\t");
            break;
         case(3):
            printf("April:\t");
            break;
         case(4):
            printf("may:\t");
            break;
         case(5):
            printf("June:\t");
            break;
         case(6):
            printf("July:\t");
            break;
         case(7):
            printf("August:\t");
            break;
```

```
        case(8):
           printf("September:\t");
           break;
        case(9):
           printf("October:\t");
           break;
        case(10):
           printf("November:\t");
           break;
        case(11):
           printf("December:\t");
        }
         scanf("%f",&finance[i][j+1]);
         temp=temp+finance[i][j+1];
         if(j==11)
         {
            finance[i][j+2]=(temp/12);
         }
      }
      printf("\n");
      system("cls");
   }
   temp=0;
   for(i=1;i<=12;i++)
   {
      for(j=0;j<no_of_years;j++)
      {
         temp=temp+finance[j][i];
      }
      finance[no_of_years][i]=temp/no_of_years;
      temp=0;
   }
   system("cls");

printf("Year\tjan\tfeb\tmar\tapril\tmay\tjune\tjuly\taug\tsep\toct\tnov\tdec\tavg\
n");
   for(i=0;i<=no_of_years;i++)
   {
      if(i==no_of_years)
      {
```

```
        printf("Avg-->");
      }
      for(j=0;j<=13;j++)
      {
      if(((i==no_of_years)&&(j==0))|| (i==no_of_years)&&(j==13))
      {
        printf("\t");
        continue;
      }
        if(j==0)
        {
         printf("%0.0f\t",finance[i][j]);
        }
        else
        {
         printf("%0.1f\t",finance[i][j]);
        }
      }
      printf("\n");
   }
}
```