9.2 A company wants to get data for the production from each of the five departments in each of the four plants. The total production of each plant should be calculated and graphed to the nearest thousand.

The production should be stored in the two-dimensional array

int Units[NumberPlants][NumberDepts];

The program is given below. Try to write the two functions

void GetData(int Units[][NumberDepts]); void Graph(int Units[][NumberDepts]);

so that the program can function as shown in the sample running.

The function *GetData* is used to get data from user and the function *Graph* is used to produce the bar chart.

```
#include <stdio.h>
#include <math.h>
#define NumberPlants 4
#define NumberDepts 5
#define PrintChar '*'
void GetData(int Units[ ][NumberDepts]);
void Graph(int Units[ ][NumberDepts]);
int main (void)
  int Units[NumberPlants][NumberDepts];
  char Choice:
   do
    ł
          printf("\nThe program displays a graph showing the ");
  printf("\nproduction of each plant in the company.\n");
  GetData(Units);
  Graph(Units);
  printf("\n\ you want to try again (y/n)? ");
  scanf(" %c", &Choice);
   } while ((Choice == 'y') || (Choice == 'Y'));
    printf("\nEnd of Program");
   printf("\n");
   return 0;
}
```

Sample running :

The program displays a graph showing the production of each plant in the company.

Please enter number of units produced by each department in plant 1 1200 2500 3600 1456 4500<CR>

Please enter number of units produced by each department in plant 2 2400 100 2500 800 4500<CR>

Please enter number of units produced by each department in plant 3 2400 3600 1480 6800 9500<CR>

Please enter number of units produced by each department in plant 4 *140 2510 4000 1000 1400*<CR>

Units produced in nearest thousand :

Plant # 2 ******** (10)

Plant # 4 ******* (9)

Do you want to try again (y/n)? n

End of Program