11/12/23 Data Structures

①
```
#include<stdio.h>
struct itemdetails {
        char itemname[10];
        int quantity;
        int price;
    }item[10];

void main()
{
  int i, n, total = 0;
  printf("Enter the no of items:");
  scanf("%d", &n);
  for(i=0; i<n; i++)
  {
   printf("Enter item name:");
   scanf("%s", &item[i].itemname);
   printf("Enter quantity:");
   scanf("%d", &item[i].quantity);
   printf("Enter price:");
   scanf("%d", &item[i].price);
  }
  for(i=0; i<n; i++)
  {
   total = total+(item[i].quantity*item[i].pric
  }
 printf("The total amount is %d", total);
}
```

Output:-

```
Enter the no of items: 2
Enter item name : pepsi
Enter quantity: 4
Enter price : 30
Enter item name: maaza
Enter quantity: 6
Enter price : 20
Total amount : 240
```

(2)

```
#include<stdio.h>
void main()
{ Struct student {
        char name[20];
        char usn [10];
        int grades1;
        int grades2;
        } s[10];
  void main() {
      int n, sum, back;
      printf(" Enter no of students: ");
      scanf (" %d", &n);
      for(int i=0; i<n; i++)
      {
       printf (" Enter name: ");
       scanf (" %s", &s[i].name);
       printf (" Enter usn: ");
       scanf (" %s", &s[i].usn: ");
       printf (" Enter no of credits earned in sem 1: ");
       scanf ( " %d", & s[i].grades1);
       printf (" Enter no of credits earned in sem2: ");
       scanf (" %d", & s[i].grades2); }
```

```
for (int j=0; j<n; j++)
{
  sum= s[j].grades1 + s[j].grades2;
  Back = 20 - sum.
  if (Back <=16)
   {
    printf (" The student %s is eligible",
                                s[j].name);
   }
  else {
    printf (" the student %s is not eligible",
                                s[j].name);
   }
}
```

Output:-

```
Enter the no of students: 2
Enter the name: Tharun
Enter the USN: 1BM22CD020
Enter no of credits earned in sem 1: 12
Enter no of credits earned in sem 2: 14
Enter the no of students
Enter the name: Karun
Enter the USN: 1BM22CS332
Enter no of credits earned in sem 1: 20
Enter no of credits earned in sem 2: 20
student Tharun is eligible
student Karun is eligible.
```

4/3/24