

Question-1**code**

```
1  #include<stdio.h>
2  #include <stdlib.h>
3  #include<string.h>
4
5  struct date
6  {
7      int day;
8      int month;
9      int year;
10 };
11
12 struct vaccine {
13     char vaccine_name[100];
14     int id;
15     char porduction_company[100];
16     char manufacture_date[100];
17     char expiry_date[100];
18     int package_no;
19     char package_status[100];
20 };
21
22 // id's of the vaccine administered first with open and then not open
23 void id_vaccine( struct vaccine *ptr) {
24     printf("\nid's of the vaccine administered first with open and then not open\n");
25     int max=-9999;
26     printf("Package --> open\n");
27     for(int i=0;i<4;i++) {
28         if((ptr[i].id>max) && strcmp(ptr[i].package_status,"open")) {
29             max = ptr[i].id;
30             printf("%d ",ptr[i].id);
```

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31         printf("%s",ptr[i].vaccine_name);
32         printf("\n");
33     }
34 }
35
36 int min=9999;
37 printf("\nPackage --> not open\n");
38 for(int i=0;i<4;i++) {
39     if((ptr[i].id<min) && strcmp(ptr[i].package_status,"not open")) {
40         min = ptr[i].id;
41         printf("%d ",ptr[i].id);
42         printf("%s",ptr[i].vaccine_name);
43         printf("\n");
44     }
45 }
46 }
47
48
49 int main() {
50     int count=5;
51     struct vaccine *obj1 = malloc(sizeof(struct vaccine) * count);
52
53     strcpy(obj1[0].vaccine_name,"Covaxin");
54     obj1[0].id = 1;
55     strcpy(obj1[0].production_company,"abc");
56     strcpy(obj1[0].manufacture_date,"12/4/2020");
57     strcpy(obj1[0].expiry_date,"12/4/2020");
58     obj1[0].package_no = 10;
59     strcpy(obj1[0].package_status,"open");
60
61     //////////////////////////////////////
62     strcpy(obj1[1].vaccine_name,"Covishield");
63     obj1[1].id = 2;
64     strcpy(obj1[1].production_company,"efg");
65     strcpy(obj1[1].manufacture_date,"24/7/2020");
66     strcpy(obj1[1].expiry_date,"12/8/2021");
67     obj1[1].package_no = 20;
68     strcpy(obj1[1].package_status,"not open");
69
70     //////////////////////////////////////
71
72     strcpy(obj1[2].vaccine_name,"pfizer");
73     obj1[2].id = 3;
74     strcpy(obj1[2].production_company,"ijk");
75     strcpy(obj1[2].manufacture_date,"15/3/2020");

```

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76 strcpy(obj1[2].expiry_date,"10/8/2021");
77 obj1[2].package_no = 30;
78 strcpy(obj1[2].package_status,"open");
79
80 //////////////////////////////////////
81
82 strcpy(obj1[3].vaccine_name,"retro");
83 obj1[3].id = 3;
84 strcpy(obj1[3].production_company,"pqr");
85 strcpy(obj1[3].manufacture_date,"12/4/2020");
86 strcpy(obj1[3].expiry_date,"22/6/2021");
87 obj1[3].package_no = 40;
88 strcpy(obj1[3].package_status,"not open");
89
90 //////////////////////////////////////
91
92 strcpy(obj1[4].vaccine_name,"asimmo");
93 obj1[4].id = 1;
94 strcpy(obj1[4].production_company,"xyz");
95 strcpy(obj1[4].manufacture_date,"23/4/2020");
96 strcpy(obj1[4].expiry_date,"25/6/2021");
97 obj1[4].package_no = 50;
98 strcpy(obj1[4].package_status,"open");
99
100 //////////////////////////////////////
101 // nearing expiry date and vaccines not opened
102 printf("Vaccines nearing expiry date and not opened\n");
103 for(int i=0;i<4;i++) {
104     if(strcmp(obj1[i].package_status , "not open") == 0) {
105         printf("%s",obj1[i].vaccine_name);

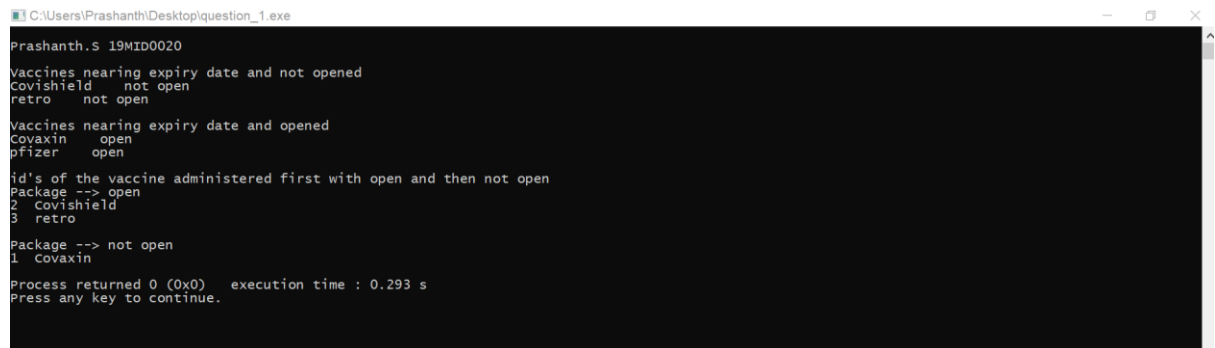
```

```

106         printf("  %s",obj1[i].package_status);
107         printf("\n");
108     }
109 }
110
111 // nearing expiry date and vaccines opened
112 printf("\nVaccines nearing expiry date and opened\n");
113 for(int i=0;i<4;i++) {
114     if(strcmp(obj1[i].package_status , "open") == 0) {
115         printf("%s",obj1[i].vaccine_name);
116         printf("  %s",obj1[i].package_status);
117         printf("\n");
118     }
119 }
120
121
122 id_vaccine(obj1);
123
124 return 0;
125 }

```

Output



```

C:\Users\Prashanth\Desktop\question_1.exe
Prashanth.S 19MID0020
Vaccines nearing expiry date and not opened
Covishield  not open
retro      not open
Vaccines nearing expiry date and opened
Covaxin    open
pfizer     open
id's of the vaccine administered first with open and then not open
Package --> open
2  Covishield
3  retro
Package --> not open
1  Covaxin
Process returned 0 (0x0)   execution time : 0.293 s
Press any key to continue.

```

Question-2

Code

```
1  #include<graphics.h>
2  #include<conio.h>
3  int main()
4  {
5      int gd=DETECT, gm;
6      initgraph(&gd,&gm,"c://turboc3/bgi");
7      outtextxy(20, 20 + 20, "Prashanth.S 19MID0020");
8          arc(100,100,0,270,50);
9          arc(150,150,0,270,50);
10
11          circle(200,200,50);
12          circle(180,200,10);
13          circle(220,200,10);
14
15      getch();
16      closegraph();
17      return 0;
18  }
19
```

Output

