Admission Portal

(Innovative Assignment)

2CS101 Computer Programming

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Admission Portal

1)For loop
2)If…else
3)Switch case
4)Functions
5)Structure

Details Entry

Sorting based on JEE rank

Branch Allocation

Display number of students allocated in each branch

Search by Admission number

Code

```c
#include<stdio.h>

struct student
{
    int percentile,jee,addno,p1,p2;
    char name[80];
    char branch[2];
};

void accept(struct student[],int);
void search(struct student[],int, int);
void display(struct student[],int);
void jee(struct student[],int );

int main()
{

    int a;
    printf("\n\n\t\tWelcome to Admission portal\n\n");
    struct student data[20];
    int n,choice,addno,p;
    printf("Number of student taking admission: ");
    scanf("%d",&n);

    accept(data, n);
    jee(data, n);
    printf("\n");
    display(data, n);
    printf("\nDo you want to search by admission no. (1-yes,0-no)?\n");
    scanf("%d",&a);
```

1. Start
2. Structure
3. Global declaration
4. Main body (Welcome, details, Search by admission no.)

```
31      switch(a)
32      {
33          case 1:printf("Enter Admission no. to search: ");
34                 scanf("%d",&addno);
35                 search(data, n, addno);
36                 break;
37          case 0:printf("Thank you");
38          break;
39          default:printf("Thank you");
40      }
41      return 0;
42  }
```

5. Switch(for search)

```
43
44  void accept(struct student list[80],int s)
45  {
46      int i;
47      for(i=0;i<s;i++)
48      {
49          printf("Enter data for Admission Process #%d\n",i+1);
50          printf("Enter Admission no.: ");
51          scanf("%d",&list[i].addno);
52          fflush(stdin);
53          printf("Name: ");
54          gets(list[i].name);
55
56          printf("Percentile in 12th Board: ");
57          scanf("%d",&list[i].percentile);
58          printf("JEE rank: ");
59          scanf("%d",&list[i].jee);
60          printf("Branch Preference (1-CS,2-EC,3-IC): ");
61          scanf("%d %d",&list[i].p1,&list[i].p2);
62      }
63  }
```

6. Accepting details

7. Search function

```
65  void search(struct student list[80],int s,int number)
66  {
67      int i;
68      for(i=0;i<s;i++)
69      {
70          if(list[i].addno==number)
71          {
72              printf("\nAdmission no.: %d\nName: %s\nPercentile in 12th: %d\nJEE rank:%d\nBranch Allocated:%s",list[i].addno,list[i].name,list[i].percentile,list[
73              return ;
74          }
75      }
76      printf("\nRecord not found\n");
77  }
```

8. Display function (Details according to JEE Rank)

```
79  void display(struct student list[80],int s)
80  {
81      int i;
82      printf("\n\nAdd no.\tName\t\tPercentile\tJee\t\tBranch Allocated\n");
83      for(i=0;i<s;i++)
84      {
85          printf("%d\t%s\t\t%d%\t\t#%6d\t\t%s\n",list[i].addno,list[i].name,list[i].percentile,list[i].jee,list[i].branch);
86      }
87  }
88
```

9. Sorting according to JEE Rank

```
92   void jee(struct student list[80],int s)
93   {
94       int i,j,cs=0,ec=0,ic=0;
95       struct student temp;
96
97       for(i=0;i<s-1;i++)
98       {
99           for(j=0;j<(s-1-i);j++)
100          {
101              if(list[j].jee > list[j+1].jee)
102              {
103                  temp=list[j];
104                  list[j]=list[j+1];
105                  list[j+1]=temp;
106              }
107          }
108      }
```

10.Branch Allocation

```
109      for(i=0;i<s;i++)
110          {if (list[i].p1==1 && cs>=4)
111              {
112                 list[i].p1=list[i].p2;
113              }
114              else if(list[i].p1==2 && ec>=4)
115              {
116                 list[i].p1=list[i].p2;
117              }
118              else if(list[i].p1==3 && ic>=4)
119              {
120                 list[i].p1=list[i].p2;
121              }
122
```

11.Branch Name(for display)

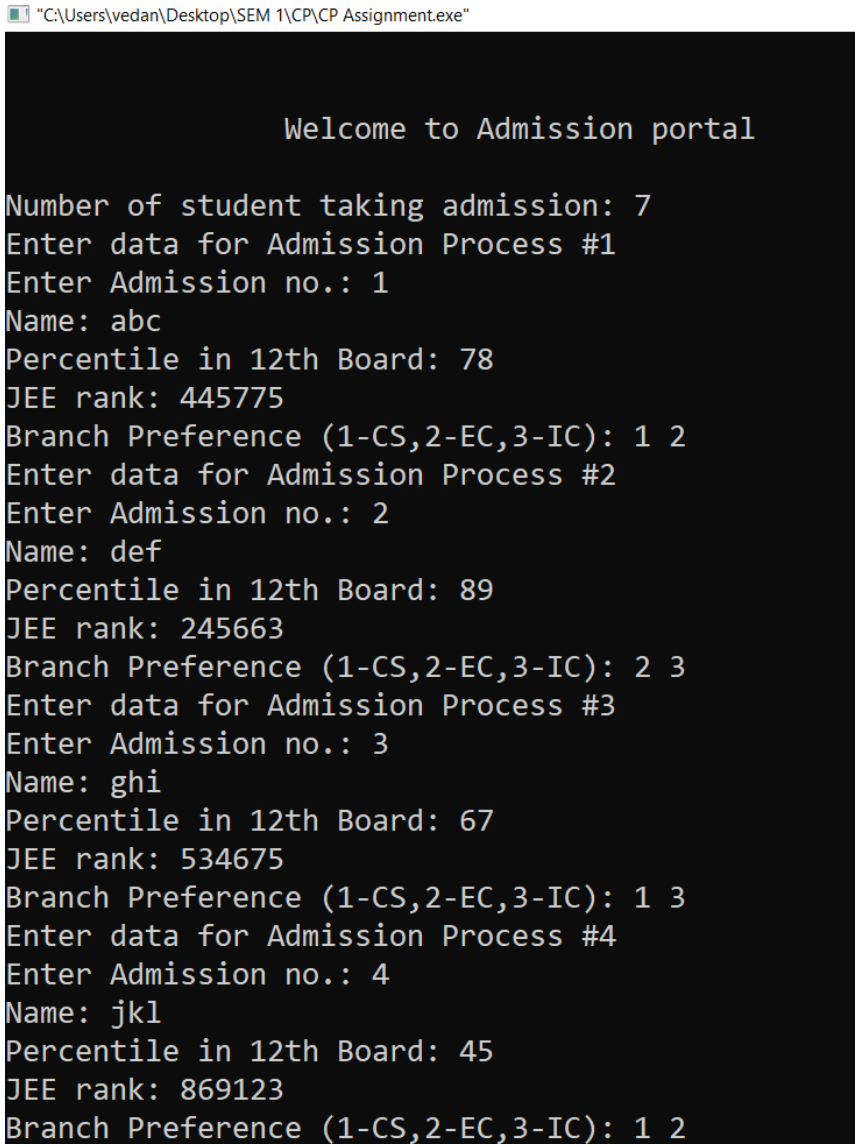
```
123         if(list[i].p1==1)
124         {
125             strcpy(list[i].branch,seat1);
126         }
127         else if(list[i].p1==2)
128         {
129             strcpy(list[i].branch,seat2);
130         }
131         else if(list[i].p1==3)
132         {
133             strcpy(list[i].branch,seat3);
134         }
```

12.To count number of students allocated in a branch

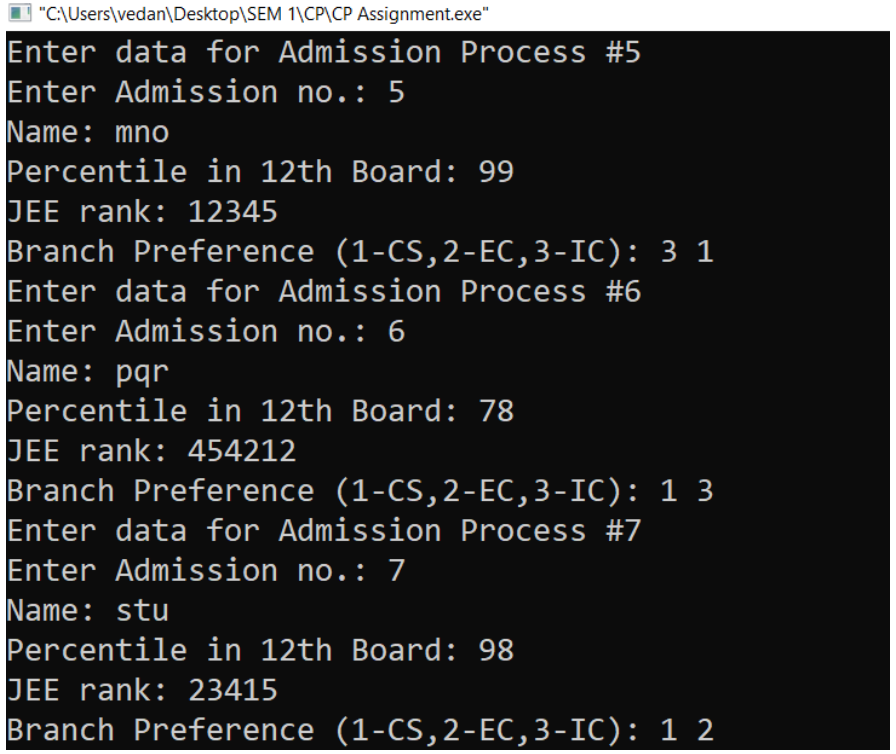
```
136         switch(list[i].p1)
137             {    case 1:
138                      cs++;
139                     break;
140                 case 2:
141                    ec++;
142                    break;
143                 case 3:
144                    ic++;
145                    break;
146
147           }}
148           printf("Number of students allocated to\nComputer Science:%d\nElectronic and Communication:%
149
150   }
```

INPUT/OUTPUT

1)



2)



INPUT/OUTPUT

3)