## 1BM19CS073 KIRAN M K

```
Program 7: Electives
#include <stdio.h>
#include <string.h>
struct Student
  char name[20];
  int choice;
}s[10];
void main()
  int i, n, c1 = 0, c2 = 0, c3 = 0, c4 = 0;
  printf("enter no of students:\n");
  scanf("%d",&n);
  for(i = 0; i < n; i++){
     printf("enter the name:\n");
     scanf("%s",&s[i].name);
     printf("select your preferred elective:\n");
     printf("1-IOT\t2-Advanced Java\t3-J2EE\t4-Advanced DS\n");
     scanf("%d",&s[i].choice);
  }
  printf("\n\n");
  printf("Students enrolled in IOT:\n");
  for (i = 0; i < n; i++){
     if(s[i].choice == 1){
       printf("%s\n",s[i].name);
       c1++;
    }
  printf("No of students enrolled in elective:IOT: %d\n",c1);
  if (c1 < 3){
     printf("This course will not be streamed as total count is less than 3\n");
    for (i = 0; i < n; i++)
       if (s[i].choice == 1)
         printf("Please select other electives:\n");
         printf("Choose available electives\n");
         scanf("%d",&s[i].choice);
         }
    }
  printf("Students enrolled in Advanced Java:\n");
  for (i = 0; i < n; i++)
    if (s[i].choice == 2)
       printf("%s\n",s[i].name);
       c2++;
    }
  }
  printf("No of students enrolled in elective:Advanced Java: %d\n", c2);
  if (c2 < 3)
```

```
{
  printf("This course will not be streamed as total count is less than 3\n");
  for (i = 0; i < n; i++)
     if (s[i].choice == 2)
       printf("Please select other electives:\n");
       printf("Choose available electives\n");
       scanf("%d", &s[i].choice);
    }
  }
printf("Students enrolled in J2EE:\n");
for (i = 0; i < n; i++)
  if (s[i].choice == 3)
     printf("%s\n",s[i].name);
     c3++;
  }
}
printf("No of students enrolled in elective:J2EE: %d\n\n", c3);
if (c3 < 3)
  printf("This course will not be streamed as total count is less than 3\n");
  for (i = 0; i < n; i++)
     if (s[i].choice == 3)
       printf("Please select other electives:\n");
       printf("Choose available electives \n");
       scanf("%d", &s[i].choice);
    }
  }
printf("Students enrolled in Advanced DS\n");
for (i = 0; i < n; i++)
{
  if (s[i].choice == 4)
     printf("%s\n",s[i].name);
     c4++;
}
printf("No of students enrolled in elective: Advanced DS: %d\n", c4);
if (c4 < 3)
{
  printf("This course will not be streamed as total count is less than 3\n");
  for (i = 0; i < n; i++)
  {
     if (s[i].choice == 4)
       printf("Please select other electives:\n");
       printf("Choose available electives\n");
       scanf("%d", &s[i].choice);
```

```
}
}
}
```

## OUTPUT:

```
enter no of students:
enter the name:
AMAN
select your preferred elective:
1-IOT 2-Advanced Java 3-J2EE 4-Advanced DS
enter the name:
ASHISH
select your preferred elective:
1-IOT 2-Advanced Java 3-J2EE 4-Advanced DS
enter the name:
BHUVAN
select your preferred elective:
1-IOT 2-Advanced Java 3-J2EE 4-Advanced DS
enter the name:
ABHYUDAY
select your preferred elective:
1-IOT 2-Advanced Java 3-J2EE 4-Advanced DS
enter the name:
GAUTAMI
select your preferred elective:
1-IOT 2-Advanced Java 3-J2EE 4-Advanced DS
enter the name:
NISCHAY
select your preferred elective:
1-IOT 2-Advanced Java 3-J2EE 4-Advanced DS
enter the name:
ABHISHEK
select your preferred elective:
1-IOT
       2-Advanced Java 3-J2EE 4-Advanced DS
3
```

```
enter the name:
AJEY
select your preferred elective:
1-IOT 2-Advanced Java 3-J2EE 4-Advanced DS
enter the name:
GAURAV
select your preferred elective:
1-IOT 2-Advanced Java 3-J2EE 4-Advanced DS
enter the name:
AMIT
select your preferred elective:
1-IOT 2-Advanced Java 3-J2EE 4-Advanced DS
Students enrolled in IOT:
AMAN
ASHISH
BHUVAN
No of students enrolled in elective: IOT: 3
Students enrolled in Advanced Java:
ABHYUDAY
GAUTAMI
NISCHAY
No of students enrolled in elective: Advanced Java: 3
Students enrolled in J2EE:
ABHISHEK
No of students enrolled in elective:J2EE: 1
This course will not be streamed as total count is less than 3
Please select other electives:
Choose available electives
Students enrolled in Advanced DS
AJEY
GAURAV
TIMA
```

```
Students enrolled in Advanced DS

AJEY
GAURAV

AMIT

No of students enrolled in elective: Advanced DS: 3

...Program finished with exit code 52

Press ENTER to exit console.
```