

```

7] #include <stdio.h>
#include <string.h>
int main()
{
    const int n;
    printf("Enter the number of students:");
    scanf("%d", &n);
    printf("choose the option: \n");
    printf("1- internet of things \n");
    printf("2- advanced java \n");
    printf("3- advanced data structures \n");
    char name[n][20];
    int choice[n];
    char iot[n][20];
    char aj[n][20];
    char ads[n][20];
    int iotc = 0, ajc = 0, adsc = 0;
    int i;
    printf("Enter the names of choice of students: \n");
    for (i = 0; i < n; i++)
    {
        printf("%d:", i+1);
        scanf("%s %d", name[i], &choice[i]);
    }
}

```



```
for (i=0; i<n; i++)
```

```
{
    if (choice[i] == 1)
```

```
{
    strcpy (iot[iotc], name[i]);
```

```
    iotc++;
```

```
}
else if (choice[i] == 2)
```

```
{
    strcpy (aj[ajc], name[i]);
```

```
    ajc++;
```

```
}
else if (choice[i] == 3)
```

```
{
    strcpy (ads[adsc].names[i]);
```

```
    adsc++;
```

```
}
```

```
}
```

```
printf ("the student in iot: \n");
```

```
for (i=0; i<iotc; i++)
```

```
    printf ("%s\n", iot[i]);
```

```
printf ("The student in aj: \n");
```

```
for (i=0; i<ajc; i++)
```

```
    printf ("%s\n", aj[i]);
```



```
printf("The student in ads:\n");
for (i=0; i<adsc; i++)
    printf("%s\n", ads[i]);
    if (iotc < 5)
        {
```

```
printf("The number of students are less in
iot, please choose other courses.\n");
```

```
int choice_iot[iotc];
for (i=0; i<iotc; i++)
    {
```

```
printf("%s:", iot[i]);
scanf("%d", &choice_iot[i]);
    }
```

```
for (i=0; i<iotc; i++)
    {
```

```
if (choice_iot[i] == 2)
    {
```

```
strcpy (aj[ajc], iot[i]);
    ajc++;
    }
```

```
else if (choice_iot[i] == 3)
    {
```

```
strcpy (ads[adsc], iot[i]);
    adsc++;
    }
```

```
    }
```

```
}
```



```
printf("The student in a_j: \n");
for (i=0; i<a_jc; i++)
    printf("%s\n", a_j[i]);
printf("The student in ads: \n");
for (i=0; i<adsc; i++)
    printf("%s\n", ads[i]);
```

g

```
else if (a_jc < 5)
```

{

```
printf("The number of students are less  
in a_j, please choose other courses. \n");
```

```
int choice_a_j[a_jc];
```

```
for (i=0; i<a_jc; i++)
```

{

```
printf("%s:", a_j[i]);
```

```
scanf("%d", &choice_a_j[i]);
```

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```
for (i=0; i<a_jc; i++)
```

{

```
if (choice_a_j[i] == 2)
```

{

```
strcpy(iot[iotc], a_j[i]);
```

```
iotc++;
```

g



```
else if (choice - aj[i] == 3)
```

```
{
```

```
strcpy (ads [adsc], aj[i]);
```

```
adsc++;
```

```
}
```

```
}
```

```
printf ("The student in iot:\n");
```

```
for (i=0; i<iot; i++)
```

```
printf ("%s\n", iot[i]);
```

```
printf ("The student in ads:\n");
```

```
for (i=0; i<adsc; i++)
```

```
printf ("%s\n", ads[i]);
```

```
}
```

```
else if (adsc < 5)
```

```
{
```

```
printf ("The number of students are less  
in ads, please choose other course.\n");
```

```
int choice ads [adsc];
```

```
for (i=0; i<adsc; i++)
```

```
{
```

```
printf ("%s:", ads[i]);
```

```
scanf ("%d", &choice - ads[i]);
```

```
}
```

```
for (i=0; i<adsc; i++)
```

```
{
```



```
if (choice == ads[i] == 2)
```

```
{
```

```
strcpy(iot[iotc], ads[i]);
```

```
iotc++;
```

```
}
```

```
else if (choice == ads[i] == 3)
```

```
{
```

```
strcpy(aj[ajc], ads[i]);
```

```
ajc++;
```

```
}
```

```
}
```

```
printf("The students in iot:\n");
```

```
for(i=0; i<iotc; i++)
```

```
printf("%s\n", iot[i]);
```

```
printf("The students in aj:\n");
```

```
for(i=0; i<ajc; i++)
```

```
printf("%s\n", aj[i]);
```

```
}
```

```
return 0;
```

```
}
```



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main.c

1#include<stdio.h>

2#include<string.h>

3

4int main()

5{

6const int n;

7printf("Enter the number of students:");

8scanf("%d",&n);

9printf("Choose the option:\n");

10printf("1 - Internet of things\n");

11printf("2 - Advanced Java\n");

12printf("3 - Advanced Data Structures\n");

13char names[n][20];

14int choice[n];

15char iot[n][20];

16char aj[n][20];

17char ads[n][20];

18int iotc=0,ajc=0,adsc=0;

19int i;

20printf("Enter the names of choice of students:\n");

21for(i=0;i<n;i++)

22{

23printf("%d:",i+1);

24scanf("%s %d",names[i],&choice[i]);

25}

26for(i=0;i<n;i++)

27{

28if(choice[i] == 1)

29{

input

main.c:8:5: warning: writing into constant object (argument 2) [-Wformat=]

Enter the number of students:5

Choose the option:

1 - Internet of things

2 - Advanced Java

3 - Advanced Data Structures

Enter the names of choice of students:

1:Internet of things



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main.c

Run

Debug

Stop

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46

printf("%s\n",iot[i]);

47

printf("The students in aj:\n");

48

for(i=0;i<ajc;i++)

49

printf("%s\n",aj[i]);

50

printf("The students in ads:\n");

51

for(i=0;i<adsc;i++)

52

printf("%s\n",ads[i]);

53

54

55

if(iotc<5)

56

{

57

printf("The number of students are less in iot, please choose other courses.\n");

58

int choice\_iot[iotc];

59

for(i=0;i<iotc;i++)

60

{

61

printf("%s:",iot[i]);

62

scanf("%d",&choice\_iot[i]);

63

}

64

for(i=0;i<iotc;i++)

65

{

66

if(choice\_iot[i]==2)

67

{

68

strcpy(aj[ajc],iot[i]);

69

ajc++;

70

}

71

else if(choice\_iot[i]==3)

72

{

73

strcpy(ads[adsc],iot[i]);

74

adsc++;

75

}

76

}

input

1 - Internet of things

2 - Advanced Java

3 - Advanced Data Structures

Enter the names of choice of students:

1:Internet of things

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main.c

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```
else if(choice_iot[i]==3)
{
strcpy(ads[adsc],iot[i]);
adsc++;
}
}
printf("The students in aj:\n");
for(i=0;i<ajc;i++)
printf("%s\n",aj[i]);
printf("The students in ads:\n");
for(i=0;i<adsc;i++)
printf("%s\n",ads[i]);
}
else if(ajc<5)
{
printf("The number of students are less in aj, please choose other courses.\n");
int choice_aj[ajc];
for(i=0;i<ajc;i++)
{
printf("%s:",aj[i]);
scanf("%d",&choice_aj[i]);
}
for(i=0;i<ajc;i++)
{
if(choice_aj[i]==2)
{
strcpy(iot[iotc],aj[i]);
iotc++;
}
else if(choice_aj[i]==3)
```

Language C

input

1 - Internet of things  
2 - Advanced Java  
3 - Advanced Data Structures  
Enter the names of choice of students:  
1:Internet of things

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main.c

99iotc++;

100}

101else if(choice\_aj[i]==3)

102{

103strcpy(ads[adsc],aj[i]);

104adsc++;

105}

106}

107printf("The students in iot:\n");

108for(i=0;i<iotc;i++)

109printf("%s\n",iot[i]);

110printf("The students in ads:\n");

111for(i=0;i<adsc;i++)

112printf("%s\n",ads[i]);

113}

114

115else if(adsc<5)

116{

117printf("The number of students are less in ads, please choose other courses.\n");

118int choice\_ads[adsc];

119for(i=0;i<adsc;i++)

120{

121printf("%s:",ads[i]);

122scanf("%d",&choice\_ads[i]);

123}

124for(i=0;i<adsc;i++)

125{

126if(choice\_ads[i]==2)

127{

LanguageC

Run

Debug

Stop

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input

1 - Internet of things

2 - Advanced Java

3 - Advanced Data Structures

Enter the names of choice of students:

1:Internet of things

2:3:advanced java

4:5:adadvanced data structures

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main.c

24scanf("%s %d",names[i],&choice[i]);

25}

26for(i=0;i<n;i++)

27{

28if(choice[i] == 1)

29{

30strcpy(iot[iotc],names[i]);

31iotc++;

32}

33else if(choice[i]==2)

34{

35strcpy(aj[ajc],names[i]);

36ajc++;

37}

38else if(choice[i]==3)

39{

40strcpy(ads[adsc],names[i]);

41adsc++;

42}

43}

44printf("The students in iot:\n");

45for(i=0;i<iotc;i++)

46printf("%s\n",iot[i]);

47printf("The students in aj:\n");

48for(i=0;i<ajc;i++)

49printf("%s\n",aj[i]);

50printf("The students in ads:\n");

51for(i=0;i<adsc;i++)

52printf("%s\n",ads[i]);

53

54

Run

Debug

Stop

Share

Save

{ } Beautify

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Language C

input

1 - Internet of things

2 - Advanced Java

3 - Advanced Data Structures

Enter the names of choice of students:

1:Internet of things

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main.c

118 int choice\_ads[adsc];

119 for(i=0;i<adsc;i++)

120 {

121 printf("%s:",ads[i]);

122 scanf("%d",&choice\_ads[i]);

123 }

124 for(i=0;i<adsc;i++)

125 {

126 if(choice\_ads[i]==2)

127 {

128 strcpy(iot[iotc],ads[i]);

129 iotc++;

130 }

131 else if(choice\_ads[i]==3)

132 {

133 strcpy(aj[ajc],ads[i]);

134 ajc++;

135 }

136 }

137 printf("The students in iot:\n");

138 for(i=0;i<iotc;i++)

139 printf("%s\n",iot[i]);

140 printf("The students in aj:\n");

141 for(i=0;i<ajc;i++)

142 printf("%s\n",aj[i]);

143 }

144 return 0;

145 }

146 }

Run

Debug

Stop

Share

Save

{ } Beautify

Language C

input

1 - Internet of things

2 - Advanced Java

3 - Advanced Data Structures

Enter the names of choice of students:

1:Internet of things

2:3:advanced java

4:5:adadvanced data structures

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