

C-30 \Rightarrow else if ladder in C

Syntax:

if (condition 1)

statement 1;

else if (condition 2)

statement 2;

else if (condition 3)

statement 3;

⋮
else if (condition n)

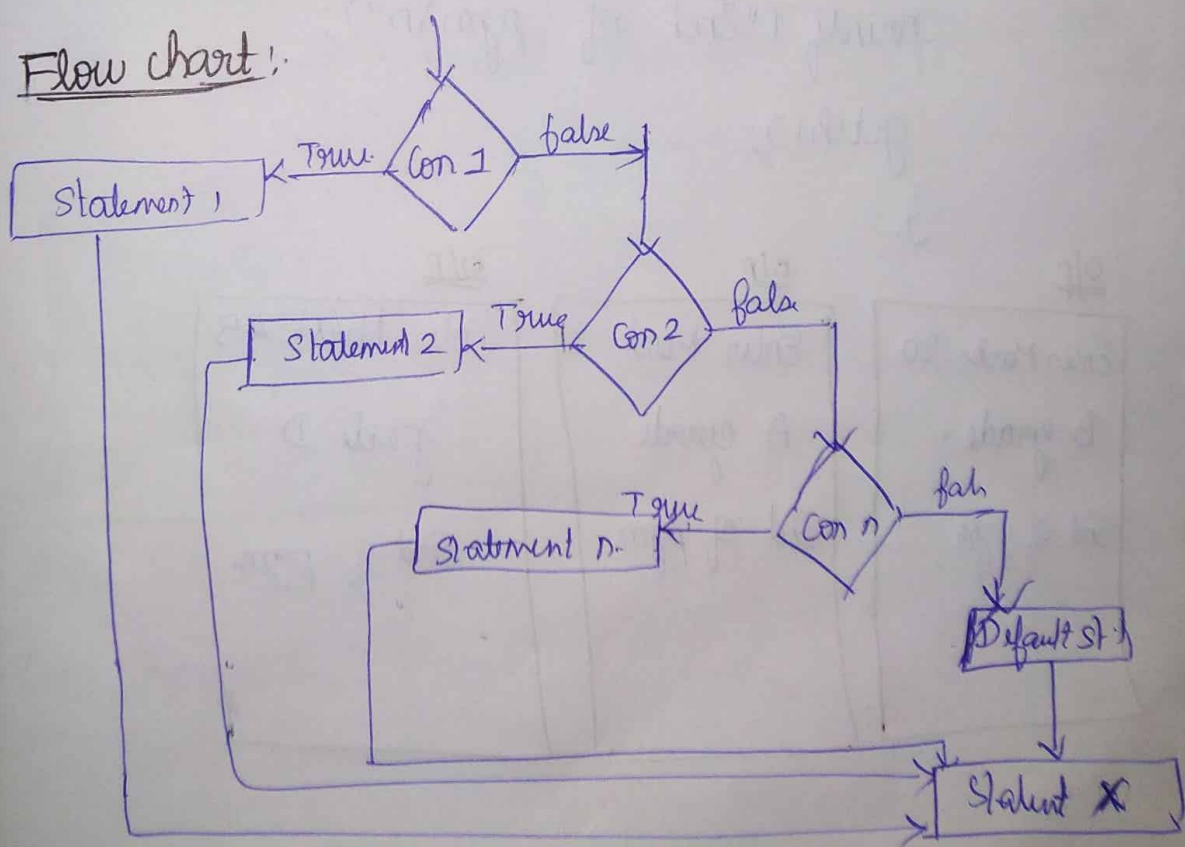
statement n;

else

Default statement;

statement x;

Flow chart:



Program ①

```
void main()
```

```
{
```

```
int marks;
```

```
printf("Enter marks:\n");
```

```
scanf("%d",&marks);
```

```
if(marks > 80)
```

```
printf("grade A\n");
```

```
else if (marks > 70)
```

```
printf("grade B\n");
```

```
else if (marks > 60)
```

```
printf("grade C\n");
```

```
else
```

```
printf("grade D\n");
```

```
printf("End of pgm\n");
```

```
getch();
```

```
}
```

O/P

```
Enter Marks: 80  
B grade  
End of pgm
```

O/P

```
Enter Mark: 81  
A grade  
End of pgm
```

O/P

```
Enter Marks: 45  
grade D  
End of pgm
```

Program 2 Enter character is what?

```
void main()
```

```
{
```

```
char c;
```

```
printf("Enter character:\n");
```

```
scanf("%c", &c);
```

```
if (c >= 'A' && c <= 'Z')
```

```
printf("Entered character is capital CAPS");
```

```
else if (c >= 0 && c <= 9)
```

```
printf("Entered character is digit");
```

```
else if (c >= 'a' && c <= 'z')
```

```
printf("Entered character is SMALL LETTER");
```

```
else
```

```
printf("Entered character is special char character");
```

```
printf("End of pgm\n");
```

```
getch();
```

```
}
```

OP:

Enter value: \.

Enter character is

Special character

CODE 1:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /* 1 - else if ladder */
4  int main()
5  {
6      int marks;
7      printf("Enter marks:\n");
8      scanf("%d", &marks);
9      if(marks>80)
10         printf("Grade A\n");
11     else if(marks>70)
12         printf("Grade B\n");
13     else if(marks>60)
14         printf("Grade C\n");
15     else
16         printf("Grade D\n");
17     printf("Out of if else ladder, End of Program...\n");
18     getch();
19 }
20
```

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```
56
Grade D
Out of if else ladder, End of Program...
```

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```
Enter marks:
96
Grade A
Out of if else ladder, End of Program...
```

CODE 2:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /* 2 - else if ladder */
4  //To check the entered value is DIGIT/UPPERCASE/SMALLCASE/SPECIAL CHARACTER
5  int main()
6  {
7      char value;
8      printf("Enter value:\n");
9      scanf("%c",&value);
10     if(value>='A'&&value<='Z')
11         printf("Entered value is UPPERCASE LETTER..\n");
12     else if(value>='a'&&value<='z')
13         printf("Entered value is SMALLERCASE LETTER..\n");
14     else if(value>=0&&value<=9)
15         printf("Entered value is DIGIT..\n");
16     else
17         printf("Entered value is SPECIAL CHARACTER...\n");
18     printf("End of Program.. Out of else if ladder....\n");
19     getch();
20 }
21
```

```
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Enter value:
b
Entered value is SMALLERCASE LETTER..
End of Program.. Out of else if ladder....
```

```
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Enter value:
G
Entered value is UPPERCASE LETTER..
End of Program.. Out of else if ladder....
```

```
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Enter value:
%
Entered value is SPECIAL CHARACTER...
End of Program.. Out of else if ladder....
```