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Nested if and elif

lec. 26

→ if inside if \Rightarrow nested if
if condition 1:

if condition 2:
statement 2

any number of these
statements can be nested
inside one another.

→ Indentation is the only way to figure out the level of nesting

eg: - $a = 52$

if $a \% 2 == 0$:

print("Even")

if $a > 10$:

print("Number is greater than 10 and
that's great")

Nested if else :-

In this case an entire if..else construct is written
within either the body of if statement or the body of else
statement.

Syntax: - if condition 1:

if condition 2:
statement 2

else:

statement 3

else:

else block statements

or

if condition 1:

if block statements

else:

if condition 2:
statement 2

else:

statement 3

→ nested block can also be put within if
as well as within else.

elif:- if we need to make a choice between more than two choices then we use elif statement.

Syntax:-
if condition 1:
 code block 1
elif condition 2:
 code block 2
elif condition 3:
 code block 3
 :
 :
else:
 code block else

Question:-

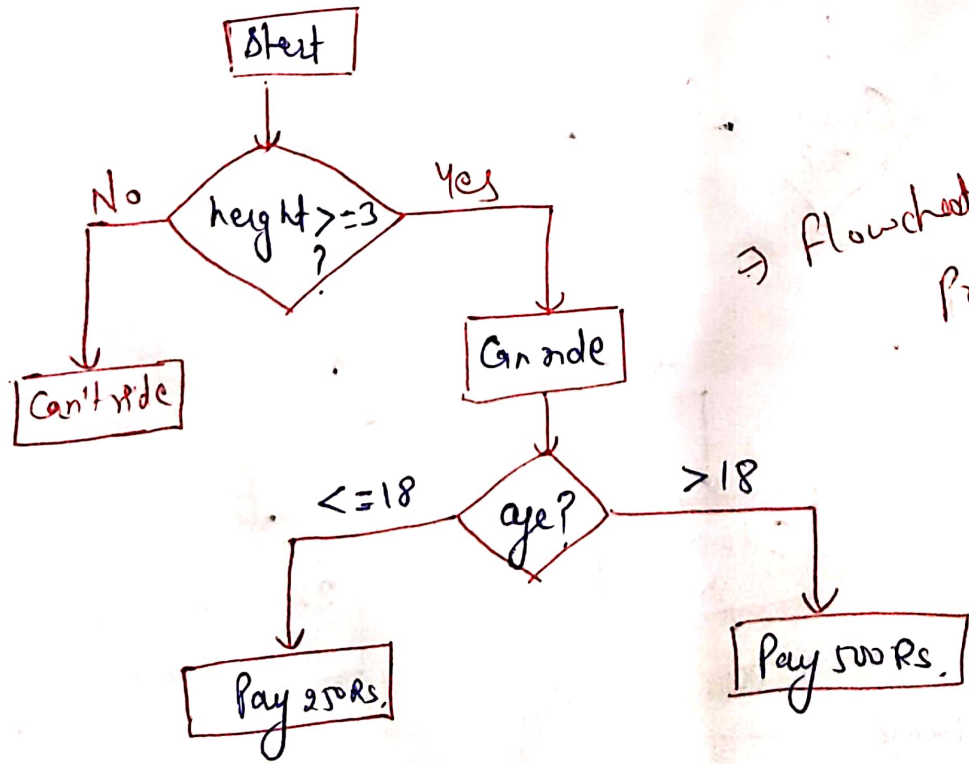
```
height = int(input("What is your height in feet: "))  
if height >= 3:  
    print("You can ride the rollercoaster!")  
    age = int(input("What is your age? "))  
    if age <= 18:  
        print("Please pay 250 rs.")  
    else:  
        print("Please pay 500 rs.")  
else:  
    print("Sorry, you can't ride!")  
print("Bye")
```

example of
nested if-else

Output:-
What is your height in feet: 4
You can ride the rollercoaster!
What is your age? 15
Please pay 250 rs.

Question:-

```
height = int(input("What is your height in feet: "))
if height >= 3:
    print("You can ride the rollercoaster!")
    age = int(input("What is your age? "))
    if age < 12:
        print("Please pay 150 Rs.")
    elif age <= 18:
        print("Please pay 250 Rs.")
    else:
        print("Please pay 500 Rs.")
else:
    print("Sorry You can not ride!")
print("Bye")
```



⇒ Flowchart of Nested if-else Program

⇒ if..elif..else
Flowchart

