

Multiple if Statements

lec. 29

if/elif/else

```
if condition 1:  
    do x  
elif condition 2:  
    do y  
else:  
    do z
```

⇒ Case I

Multiple if

```
if condition 1:  
    do x  
if condition 2:  
    do y  
if condition 3:  
    do z
```

⇒ Case II.

in case I. only one statement would be executed (either X, or Y or Z) depending on the condition. If condition 1 is true then X statement would be executed only then we will not check for condition 2 and else part.

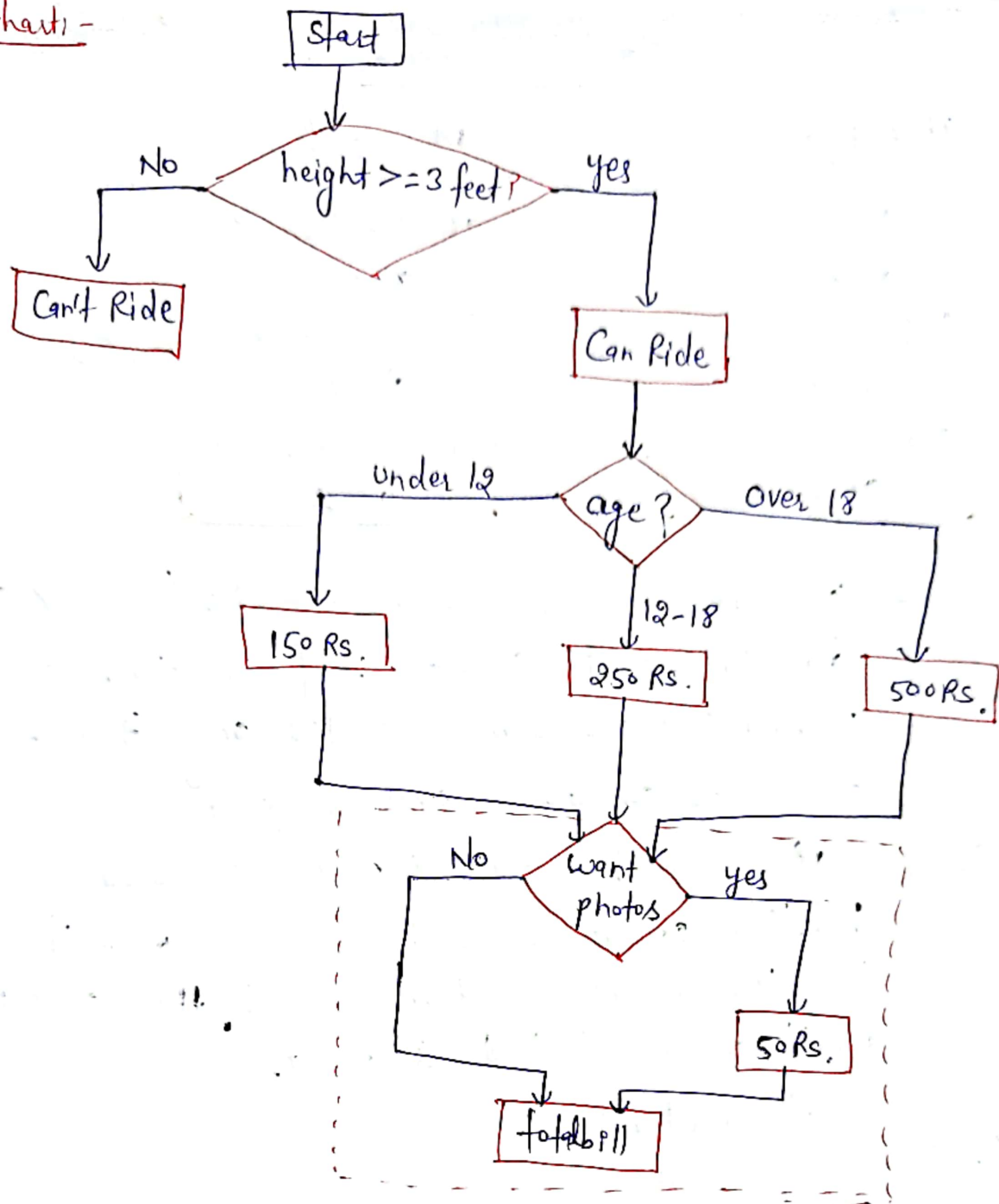
in Case II:- if condition 1 is true, X statement would be executed. but then condition 2 would be checked & if it is also true then Y statement would be executed. then condition 3 would also be checked & so on.

Syntax:-

```
if condition 1:  
    do this  
if condition 2:  
    do this  
⋮  
if condition n:  
    do this
```

Example:- Let's take rollercoaster ride example again, but there want to add one more thing now. if you want a photo during ride then extra 50 Rs. you need to pay. no matter of what age you are.

Flowchart:-



Program:-

```
height = int(input("what is your height? "))
bill = 0
if height >= 3:
    print("You can ride.")
    age = int(input("what is your age? "))
    if age < 12:
        bill = 150
        print("Ticket Price is 150 Rs.")
    elif age <= 18:
        bill = 250
```

(2)

```
print("Ticket Price is 250 Rs.")
```

```
else:
```

```
    bill = 500
```

```
    print("Ticket Price is 500 Rs.")
```

```
want_photo = input("Do you want to take photo (Y/N)? ")
```

```
if want_photo == 'y' or want_photo == 'Y':
```

```
    bill = bill + 50
```

```
print(f"Your total bill is {bill}")
```

```
else:
```

```
    print("You can't ride.")
```

```
print("Thank You... Enjoy the ride!!")
```