Date: _____

Problem 6 : Amusement park Ride eligibility

Understood : For different rides there are different eligibility criteria based on height and age. We have to tell if visitor meets certain criteria.

Solution : Ask for their height and age and compare with the given threshold if they meet criteria we would allow them to take ride.

Pseudocode :

```
START
    OUTPUT " Enter your age and height (in inches) "
    INPUT  height , age
    OUTPUT " Enter the ride u want to take : Dragon rover coster,
    INPUT  ride                              the carousel or sky swing"
    IF  ride == " Dragon Rover coaster " THEN
      IF  heigh >= 48 AND age >= 10 THEN
        OUTPUT " You meet the criteria for Dragon Rovercoaster"
      ELSE
        OUTPUT " You donot meet the criteria for Dragon Rover coaster"
      END IF
    ELSE IF  ride == " the carousel " THEN
        IF  age >= 5 THEN
          OUTPUT " You meet the criteria for carousel "
        ELSE
          OUTPUT " Sorry, you donot meet the criteria "
        ENDIF
```

NEXT PAGE →

Scanned with CamScanner

Date: _____

```
ELSE IF ride == "Sky Swing" THEN
    IF height >= 54 THEN
        OUTPUT "You meet the criteria for Sky Swing"
    ELSE
        OUTPUT "Sorry, you donot meet the criteria for sky swing"
    END IF
ELSE
    OUTPUT "Invalid ride selection!"
END IF
END
```

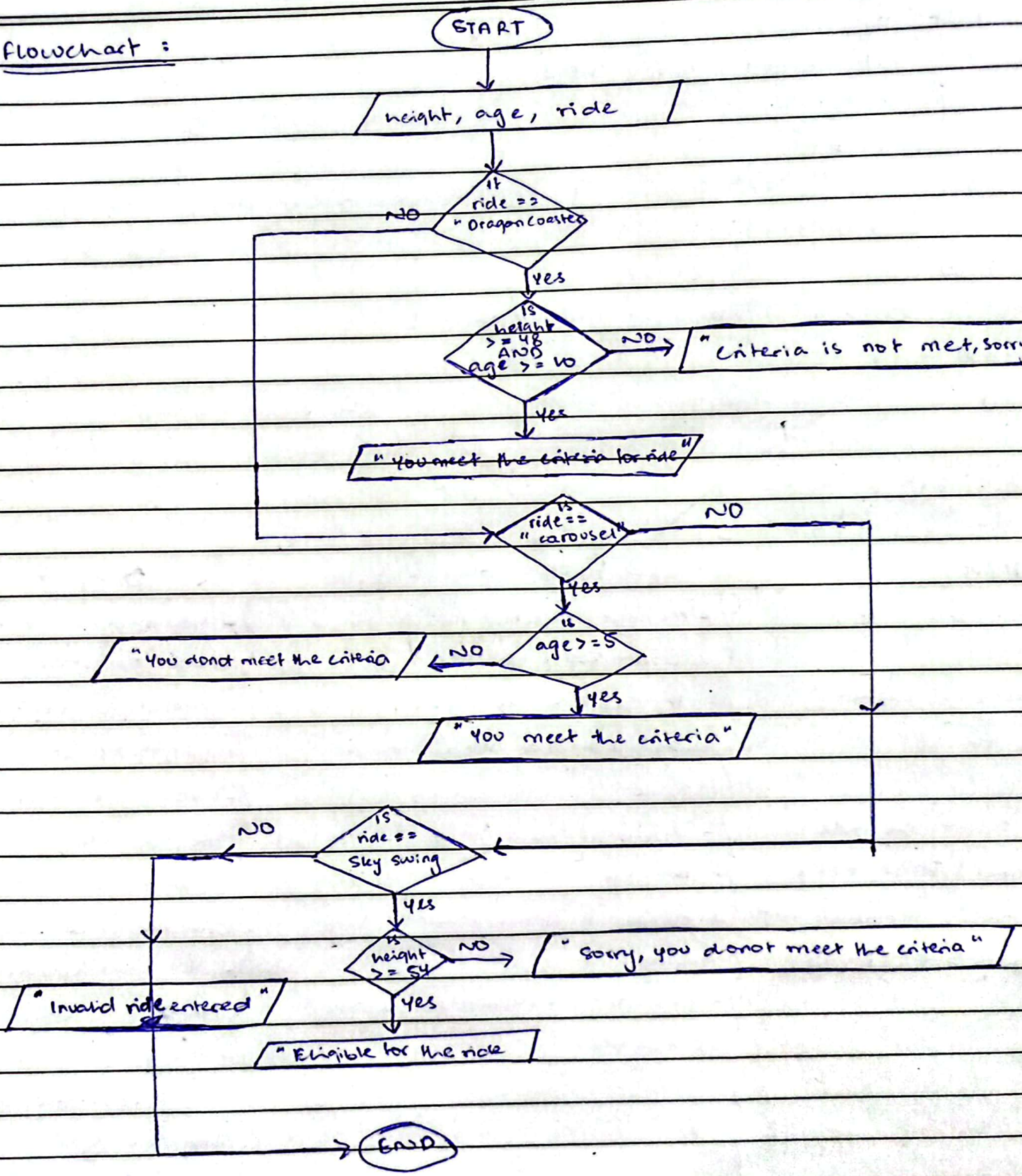
IPO Chart :

Input	Process	Output
- visitor's age - visitor's height in inches - select the ride from (Dragon Rover coaster, carousel and sky swing)	- check it selected ride is Dragon Rover coaster - If height >= 48 inches AND age >= 10, the visitor is eligible. - check if selected ride is carousel - If age >= 5 then visitor eligible. - check if selected ride is sky swing. - If height >= 54 inches visitor is eligible.	- You meet criteria for Dragon Coaster. - You donot meet the criteria for Dragon coaster - You meet criteria for carousel. - You donot meet the criteria for carousel. - You meet the criteria for sky swing. - Sorry, you donot meet the criteria for sky swing. - Invalid selection!

Scanned with CamScanner

Date: _____

Flowchart :



Scanned with CamScanner