11-08-25

Task :2 Implement conditional, control and looping statements.

AIM:- To implement conditional, control and looping statements.

2.1

if score is 90 (or) above the grade is 'A'

if score is blw 80 and 89, the grade is 'B'

if score is blw 70 and 79; the grade is 'C'

if score is blw 60 and 69 the grade is 'D'

if score is below 60 the grade is 'F'

Algorithm:-

1. Start
2. Get input math user
3. with use of if-elif-else
   * If max >=90
   * If mark is 80 and 90
   * If mark is 60 & 69
4. Stop

Program:-

```
Score = int (input ("enter the score"))
  if Score >= 90
  Print f (" the grade is A")
  elif (Score <=89 and score >=80)
  Print (" the grade is B")
  Elif (" Score <=79 score >=70)
  Print (" The grade is C")
  elif (" score <=69 and score >=60");
  Print (" The grade is D")
  else;
Print (" The grade is F")
```

Output:-

Enter the score: 60

The Grade is D

Program :-

```
# Battery health checker
Percentage = int (input ("Enter battery Percentage:"))
if Percentage >= 90;
    Print ("excellent Battery health")
    elif >= 40
    Print ("Avg Bat health")
```

Input:-

Battery Charge Percentage

Sample outputs:

Enter Battery Percentage : 85

good battery health

22:- The electronics maintaince data centre needs to assess status of backups batteries based on current %.

* If the % is > than or = to 90 display:

→ Excellent battery health

* if the % is b/w 70 & 89 display;

→ The percentage is below 40 & 64

* Avg Batter health

* If % is below 40, display

→ Poor Battery Health.

TASK :-

write a Python Program

Algorithm :-

1. Accept battery % from us

2. use laddered if elif - else to determine the health category.

3. If % ≥ 90 → excellent

if 70 < % good battery

if 40 ≤ % < 70 Avg

if < 40 → Poor Battery.

Program :-

```
for i in rang (1, 8):
height = int (input (f" enter height {i} in cm) :))
  if height >=120:
  Print (" Allowed to ride")
else :
  Print (" not allowed to ride")
```

Sample input :-

Enter height of visitor 1 in cm : 130

Enter height of visitor 2 in cm : 110

Enter height of visitor 3 in cm : 150

Enter height of visitor 4 in cm : 90

Enter height of visitor 5 in cm : 175

Sample output :-

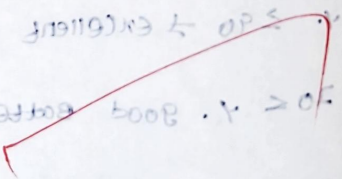
Allowed

Not Allowed

Allowed

Not Allowed

Allowed



8.3 You're coding a system at an amusement Park that checks the height if each visitor.

* if heights is 120 cm or more, Print Allowed.
* otherwise, Print "Not allowed".

Repeat this for 5 visitors.

Algorithm:-

1. Start the Program
2. Set the total number of visitors to 5
3. loop from visitor 1 to 5
   * Accept the input
   * If height is greater than or equal to 120,
     Print Allowed
4. Stop the Program.

VEL TECH - CSE	
EX NO.	2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	20
SIGN WITH DATE	

Result:- Thus, the Python was success-fully implemented using conditional statements, control flows and looping statements