

Task NO: 21

Date: 13-8-25

Aim: To implement conditional control and looping statements using python.

Algorithm:

- start
- Get the input mark from the user.
- with the use of an if-elif-else statement do
  - If the marks  $\geq 90$  print grade "A".
  - If the mark is between 80 and 89 print grade "B".
  - If the mark is between 70 and 79 print grade "C".
  - If the mark is between 60 and 69 print grade "D".
  - If the mark is below 60, print grade "F".
- STOP

Program:

```
score = int(input("Enter the score:"))  
if score >= 90:  
    print("The Grade is A")  
elif (score <= 89 and score >= 80):  
    print("The Grade is B")  
elif (score <= 79 and score >= 70):  
    print("The Grade is C")  
elif (score <= 69 and score >= 60):  
    print("The Grade is D")  
else:  
    print("The Grade is F")
```

out put:

Enter the score 60  
The Grade is D

EX NO	
NAME OF ORGANIZATION	
NAME OF THE PROJECT	
VIVA VOCE	
RECORD	
TOTAL	
DATE	

Task - 22:

Date: 13-08-25

Aim:

To write a python program that uses ladderized if-elif-else statements

Algorithm:

- Accept battery percentage from the user.
- Use ladderized if-elif-else to determine the health category:
  - If percentage  $\geq 90$  → "Excellent Battery Health"
  - If  $70 \leq$  percentage  $< 90$  → "Good Battery health"
  - If  $40 \leq$  percentage  $< 70$  → "Average battery health"
  - If percentage  $< 40$  → "Poor Battery Health"

Program

```
# Battery Health checker
```

```
Percentage = int(input("Enter battery percentage:"))
```

```
if percentage  $\geq 90$ :
```

```
    print("Excellent Battery Health")
```

```
elif percentage  $\geq 70$ :
```

```
    print("Good Battery Health")
```

```
elif percentage  $\geq 40$ :
```

```
    print("Average Battery Health")
```

```
else:
```

```
    print("Poor Battery Health")
```



Input:

Battery charge percentage (integer)

sample output

enter battery percentage : 85

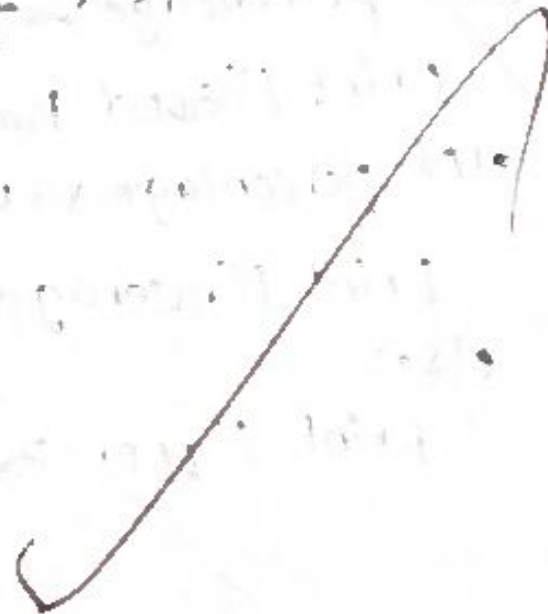
Good Battery Health

### 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 : 125

### sample output

allowed  
Not allowed  
Allowed  
Not allowed  
allowed





Task NO: 2.3:-

Date: 13-08-26

Aim:

To write a program to check the height of each visitor at a amusement park.

Algorithm.

- start the program
- set the total number of visitors to 5
- loop from visitor 1 to visitor 5;
- Accept the height of the visitor as input (in cm).
- If height is greater than or equal to 120, print "Allowed".
- else, print "NOT allowed".
- end the loop after 5 visitors have been checked.
- stop the program.

Program:

```
for i in range(1,6):
```

```
    height = int(input(f"enter height of visitor {i} in cm:"))
```

```
    if height >= 120:
```

```
        print("Allowed to ride.")
```

```
    else:
```

```
        print("Not allowed to ride.")
```

EX NO.	2
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	3
VIVA VOCE (3)	3
RECORD (4)	4
TOTAL (15)	15
SIGN WITH DATE	

Result Thus, the Python program was successfully implemented using conditional statements, control flow, and loop statements.