Aim: Implement conditional, control and looping to implement conditional control and looping Statements using python.

2.1 you are developing a simple Grade manage

ment System for a school.

it the score is 90 or above, the grade is "A". if the score is between 80 and 89, the grade is is if the Score is between to and to the grade's if the score is between 60 and 69, the grade b if the score is below 60, the grade is F".

## Algorithm:

2. Get the input mark from the user.

3. with the use of an it-elif-else statement do

. If mark >=90 print grade A

· if the mark is between 80 and 89 print grade

· if the mark is between to and to print grade ?

if the mark is below 60, print grade F. selow 60, print grade F.

U. Stop.

output!

Enter the score:60 The Grade is D

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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 <=49 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")

Result: thus, the python program - implement conditional, control looping excented successful

2.2 The electronic maintenance team at a data center needs a tool to assess the health status of UPS backup batteries based on their Current Clarge if the percentage is greater them or equal to 90, -4 Excellent Battery Health if the percentage is between to and 89, display. -4 "Good Battery Health" · if the percentage is between up and 69, display -y Average Battery Health". . if the percentage is below uo, display. -4 poor Battery Health" write a python program that: ceses ladderized if -elif-else stadements. Algorithmi 1. Accept battery percentage from the user. 2. We ladderized if-elifto determbre the health category · if percentage 790 -7 "Excellent Battery Health" · if tospercentage < 90, -> "Good Battery Health" · if Uo & percentage 270 -> "Average Battery Health" · it percentage Luo & "poor Battery Health"

Input? Battery Charge percentage Cinteger) Sample output: Enter battery percentage: 85 Good Battery Health. - 577283 859 105088 DEPOSITEDATE NOVEMBER - 593033 - 1 to respect the strictle of the strict of the section of the sectio " A THEORY OF THE BUILDING THE BULL AND THE STREET THE " 3 4 Mess The Last House Secretary The Colors 

python program?

## Battery Health Checker

percentage = Int(input("Enter battery percentage:"))

if percentage 7 = 90:

print("Excellent Battery Health")

elif percentage 7 = 70:

print("Good Battery Health")

elif percentage 7 = 40:

print("Average Battery Health")

else:

print("poor Battery Health")

Result: thees the python programme that ceses laderized it if else statement is verified successifully.

2.3 you're coding a system at an amusement park that checks the height of each visitor. · if the height 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 visitors 1 tovisitor 5: · Accept the height of the visitor as input · if height is greater than or equal to 120, print " Allowed", · Else (print "Mot allowed". 4. End the loop after 5 visitors have been checker 5. Stop the program. program: for i in range (1,6): height = int (input (f "Enter height vet if height 7=120: print ("Allowed to ride.") print ("Not allowed to ride the DATE Result: thus the python program was successfully implement -ted using conditional statements, control flogs, and

## Sample Input:

Enter height of visitor 11m cm: 130
Enter height of visitor 2 incm: 110
Enter height of visitor 3 incm: 150
Enter height of visitor 4 incm: 90
Enter height of visitor 4 incm: 90
Enter height of visitor 5 incm: 125

sample output:

Allowed

Allowed

Allowed

Allowed.