Task: 2 Implement conditional, control and looping statements.

Aim: To implement conditional, control and lapping statements

2.1: You are developing a simple grade management system for a school the system needs to determine the grade of student based on source in a test.

If score is a low to and so the grade is it.

If score is blu to and to the grade is it.

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## Algorithm:

1. Stoot

2. Bet input math from the user.

3. With use of If-elif-else Statement do
If mary = 90 Prints grade "A"

. If mark is between 20 (89 Print f grade "B"

. If mark is between 70879 prints grade c

. If mark is between 60 RG9 Printf grade"D"

. Of mark is below 60, Prints grad F

4. Stop.

program: 1040 wants to calculate the crea of scales of Score = int(input ("Erra the Score")) bis Atlan al proint white a system group are group and gland Printf "The grade is A") HOW EDISU DOND and elif (2000 2:89 and save >= 80): o stores of mil elif (" Atro. Score 2=79 and score >= 70) 11 prim rouge Print ("The grade is "c") Algorithms elif ("score 2=69 and 5 core >=60): years all typis. 1 e Accept or ourign the Cognisor of the thousands. Print ("The grade is F") ) boo do 3 colculate the semi- serimeters: अन्तिम् १ Output: 4. use heror's formula to calculate the onea: Enter the Score: 60 free 156-00 por 15-03 The grade is Didposit at yours at raight of 6 to d the program. VEL TECH - CSE PERFORMANCE (5) RESULT AND ANALYSIS (6) counts now the super program to find the orea of

a distrib is

#Battery health checker Percovage = Int (" Endo battery Percovage:")) if percotage >= 90: Print ("Excellent Bastony health") elif Percentage >= 70: Print ("Good Battery health") elit Percentage >=40:
Print ("Avorage Battery health") else: Printfl" Poor Battery health") Input: Battery charge percatage (integer) Sample outputs! tomant statement is trusper of some "A shop timing of twom 1 ?. Exter battery percetage . 85 good battery health. I trop Hoiry od wotod of drom 77.

- 2.2. The electronices maintenance framas data corton needs to assess hear status of ops backup batteris bored on courset percentage, you are asked to develop a python Program that accepts the percentage, health using following conditions.
  - . If the percentage is greather than or equal to go, display: -> Excellent But tougheauth. Desolla Tour") toil
  - If the percentage is blow to & 8 9, display;
    -> Good Bootery health!
  - · The Percentage is below go, 40 & 64, display, -> "Average Boottery health" entire to the service of
    - . If Percentage is below 40, display" -> Poor Bottery health".

Python Program that: uses ladeleized if elif-elip write a Statements. b scool A

Godon hardfur ex

go theight of

becollA FOU

## Algorithm:

- 1. Accept boditery percentage from us.
  2. Use badderized if-elif-else to determine the health

Car gay

- · If percentage > 90 > "Excelent Battery health"
- · If 70 < Percetage 290 + good Bothery health".
- . If ho = Pertodag = 70 = Average Battery health?
- . If Porcertage 240 Poor Battery health".

Program: for i in rough (160); where were again of aposition height = int lingut (f" Enter height of visitor fis in const) if height >= 120; Print ("Allowed toride") else: Print (" NOT Allowed to ride.") possib, p & got old el goboleg at 12. Sample input: "Alord postery boop? City hight of visitor 17 in cm: 130 Exter height of visita 2 incm: 110 Enter height of Visitor 3 in cm. 150 Enter height of visitor & incm: 90 Enter height of visitor 5 incm: 175 Sample output: ou that margor with Allowse d Algorithm: Not Allowed Allowed a Accept bookery percentage from us Not Allowed of solo-file to strobbod sour ? Allowed .If governoy say, except Botton health: . If The Perunded 500 Day Books FOF II. of 2 garding 9 2 on 71. " stood wester solon -. If possesson also soon south,

- You're coding a system at an anusement Pack that checks the height if each visitar.
  - . If heights is 1200m or more, Print "Allowed.
    - · Otherwise, Print' Not allowed. Repeat this for 3 visita.

## Alogorithm:

- 1. Stood the program.
- 2. Set the total number of visitor to s
- 3. loop from visitor 1 to visitor 5.
  - . Accept the height of visite as input
  - . If height is greather than or equal to 120, Print "Allowed".
    - · Else, Print "NOT Allowed".
- 4. End the loop after 5, visitors have been checked

VEL TECH - CSE PERFORMANCE (5) RESULT AND ANALYSIS (5) VIVA VOCE (5) RECORD (5) TOTAL (20) SIGN WITH DATE

Result: Thus, the Pethon was Socien fully implement & using Conditional Statements (if else), Control flows and looping Statements.