Task 2: Implement conditional, control and looping statement

Aimi

To implement Conditional, control and looping statements using Python.

a you are developing a simple grade management system for a School. The system needs to determine the grade of a student based on their score in a test. The grading system follows these rules:

i. If the score is 90 or above, the grade is "A".

ii. If the Score is between 80 and 89, the grade is "B".

in. If the Score is between 70 and 79, the grade is "c".

iv. If the Score is below 60, the grade is F".

Algorithmi

- 1. Start
- 2 Get the input mark from the user.
- 3 with the use of an if-elif-else statement do
 - . If the marks>=90 Print grade "A".
 - . If the mark is between 80 and 89 Print grade "B".
 - . If the mark is between to 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".
- 4. Sto P.

output for al Enter the score 160 The Grade is D

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")

elife (Scorec= 69 and Score >= 60)

Print ("The Grade is D")

Print ("The Grade is F") else:

Program ! Score = int(input("Enter the score:")) if score >= 90; Print ("The Grade is A") elif (score <= 89 and score>=80): Print (The garade is B') ellf (Score <= 79 and Score >= 60); Print ("The Grade 15 (") elif(score <= 69 and score >= 60): Print ("The Grade is D") else: Print ("The Grade is F") B you are developing an educational program to help the young students learn about natural numbers, one of the features of the Program is to display the first to natural numbers to the user. Write a python program the uses a for loop to print the first to natural numbers. Algorithm: 1 Start 2. Display "The first to natural numbers are: " 3. use a for loop for generating the numbers. 4. Print the output. S. Spos

Output for b: The first to natural numbers are! 1 10 output for c: Enter the Number: 5 The number of digits is 5 is: I Enter the number:55 The number of digits in 55 is:2

Programi
#Display the first 10 nautral numbers
Print ("The first to natural numbers are:")
for i in range (1.11): # loop from 1 to lo Pront(1)
Aint (i)
E you are working on a feature for a finantial application
that involves validiting user input one of the requirements
is to count the total number of digits in a given number.
Algorithm:
2 Start
2 Get the input from the user.
3. Convert the integer to string using str().
4. Use len function to find number of digits.
5 Print the output. JERENHANCE (5)
Program:
digit=int(Intput("Enter the Number:")) (Training)
string = str(digit) # since Integer doesn't have nation()
count = len (string)
Print ("The number of digits in", digit, "is: ", count)
Result:
Thus, the python program to implement conditional, control
and looping statements was done Successfully.