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TASK 6.)

Implement conditional, control and looping statements

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

Algorithm:

=====

1. START

2. GET THE INPUT MARK FROM THE USER

3. WITH THE USE OF AN IF-ELSE STATEMENT DO.

IF MARKS >= 90 PRINT GRADE "A"

IF MARKS BETWEEN 80 AND 89 PRINT GRADE "B"

IF MARKS BETWEEN 70 AND 79 PRINT GRADE "C"

IF MARKS BETWEEN 60 AND 69 PRINT GRADE "D"

IF MARKS BELOW 60, PRINT GRADE "F"

4. STOP

Program:

=====

```
score = int(input("Enter score:"))
```

• IF score >= 90 :

 print("Grade is A")

ELIF score <= 89 and score >= 80 :

 print("Grade is B")

ELIF score <= 79 and score >= 70

 print("Grade is C")

ELIF score <= 69 and score >= 60 :

 print("Grade is D")

ELSE :

 print("Grade is F")

Output

The first 10 natural numbers are

1
2

3

4

5

6

7

8

9

10

TU h.B.2

You are developing an educational program to help young students learn about natural numbers. One of the features of the program is to study the first 10 natural numbers to the user write a Python program that uses a for loop to print the first 10 natural numbers.

Algorithm:

1. START

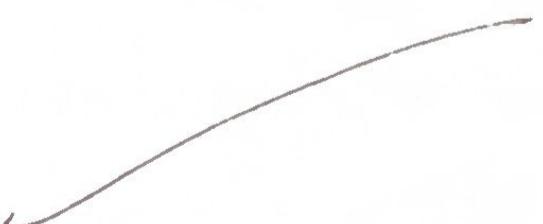
2. DISPLAY THE FIRST 10 NATURAL NUMBERS WHERE:

3. USE FOR LOOP GENERATING THE NUMBER

4. PRINT THE OUTPUT

5. STOP

```
PRINT("THE FIRST 10 NATURAL NUMBERS ARE:")
for i in range(1, 11):
    PRINT(i)
```



Output

Enter the number 35

The number of digits in 35 is 2

Enter the number : 55

The number of digits in 55 is 2

Task-3

You are working on a feature for a financial application that involves validating user input. One of the requirements is to count the total number of digits in a given number.

Algorithm:

= = =

1. 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. display the output

Program:

```
digit = int(input("Enter the number:"))
string = str(digit)
count = len(string)
print("The number of digits is", digit, "is", count).
```

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Results

Thus the python program for the implementation of conditional, control and looping statements was done successfully.