

Task - 8 :- Implement Conditional, control and looping statements

Aim :- 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 if these score is 90 (00) above the grade is "A" if the score is between "80 and 89" the grade is "B" if the score is below 60 the grade is "F"

Algorithm:-

- 1) Start
- 2) Get the input mark from the user
- 3) With the use of if-else if-else statement do
- 4) if the marks ≥ 90 print grade "A"
- 5) if the mark is between 80 and 89 print grade "B"
- 6) if the marks is between 70 and 79
- 7) print grade "C"
- 8) if the mark is between 60 and 69 print grade "D"

OUT PUT :-

Enter the Score :- 60

The Grade is O.

8. If the marks is below 60, print grade "F"

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 <= 60 and Score >= 60)
    print ("The grade is D")
else;
    print ("The grade is F")
```

Ques. 1) What is the output :-

The first 10 natural numbers are

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)

b) You are developing an education program to help young student learn about natural number one of the features of the program is to display the first 10 natural numbers to the user with a Python program that uses a for loop to print the first 10 natural numbers.

- 1) Start
- 2) Display "The first 10 natural numbers are"
- 3) Use 'for' loop for generating the numbers
- 4) Print the output
- 5) Stop

Displaying the first 10 natural numbers
print ("The first 10 natural numbers are")
for i in range (1, 11):
 print (i).

out, put is used in prolog to ask a question.

Enter the number :- 5

The number of digit in 5 is 1

Enter the number :- 55

The number of digit in 55 is = 7

28

1

State 6

2693mm

Wells, off Park St., Boston.

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

Algorithm:-

- 1) Start
- 2) get the input from the user
- 3) use the function to find number of digits using str(c)
- 4) use the function to find number of digits
- 5) print the output

Program:-

```
digit = int(input("Enter the number"))
```

```
string = str(digit)
```

```
count = len(string)
```

```
print ("The number of digit in  
"digit") is (count)
```

RESULT :- Thus, the Python program to implement conditional statement enter

EX No.	VELTECH GATEWAY
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	SUCCESSFULLY
VIVA VOCE (5)	5
RECORD (5)	80
TOTAL (20)	85
SIGN WITH DATE	8/8