



# **SESSION - 1**

## **REVISION OF PYTHON LEVEL 1**



# Learning Outcomes:

- **Remember:** The students will recall about variables, conditions, loops and lists.
- **Understand:** They will focus on understanding the above concepts. .
- **Apply:** They will learn to apply the concepts of variables, conditions , loops and lists in multiple programs
- **Analyze:** They will check their understanding by developing a code .
- **Create:** They will create the code in EduBlocks

# Apply & Create

## TASK 01:-

**</> WRITE A PROGRAM TO ASK HOW MANY  
STUDENTS ARE GOING TO ENTER THEIR  
MARKS FOR THE SUBJECT AND COMPARE  
THEIR GRADES**

# Activity Description

Using FOR Loop:-

1.Create 2 variables:-

a.Number= number of students

b.Marks= marks of the student

2.Run a for loop for total number of students

3.Compare the marks, and display grades.

# Program

# Start code here

```
NUMBER = int( input( "How many students in the class are going to enter their marks" ) )  
  
for i in range( NUMBER ):  
    MARKS = int( input( "Enter your marks" ) )  
  
    if MARKS > 0 and MARKS <= 30 :  
        print( "Grade C" )  
  
    elif MARKS > 30 and MARKS <= 60 :  
        print( "Grade B" )  
  
    elif MARKS > 60 and MARKS <= 100 :  
        print( "Grade A" )
```

```
elif MARKS > 60 and MARKS <= 100 :  
    print( "Grade A" )  
  
else:  
    print( "Invalid marks" )
```

# Syntax

```
1 #Start code here
2 NUMBER = int(input("How many students in the class are going to enter their marks"))
3 v for i in range(NUMBER):
4     MARKS = int(input("Enter your marks"))
5 v     if MARKS > 0 and MARKS <= 30:
6         print("Grade C")
7 v     elif MARKS > 30 and MARKS <= 60:
8         print("Grade B")
9 v     elif MARKS > 60 and MARKS <= 100:
10         print("Grade A")
11 v     else:
12         print("Invalid marks")
13
```

# Output

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How many students in the class are going to enter their marks 4

Enter your marks 50

Grade B

Enter your marks 60

Grade B

Enter your marks 70

Grade A

Enter your marks 120

Invalid marks

# Apply & Create

## TASK 02:-

**</> WRITE ABOVE PROGRAM USING WHILE  
LOOP**



# Program

# Start code here

COUNT = 0

NUMBER = int( input( "How many students in the class are going to enter their marks" ) )

while COUNT < NUMBER :

MARKS = int( input( "Enter your marks" ) )

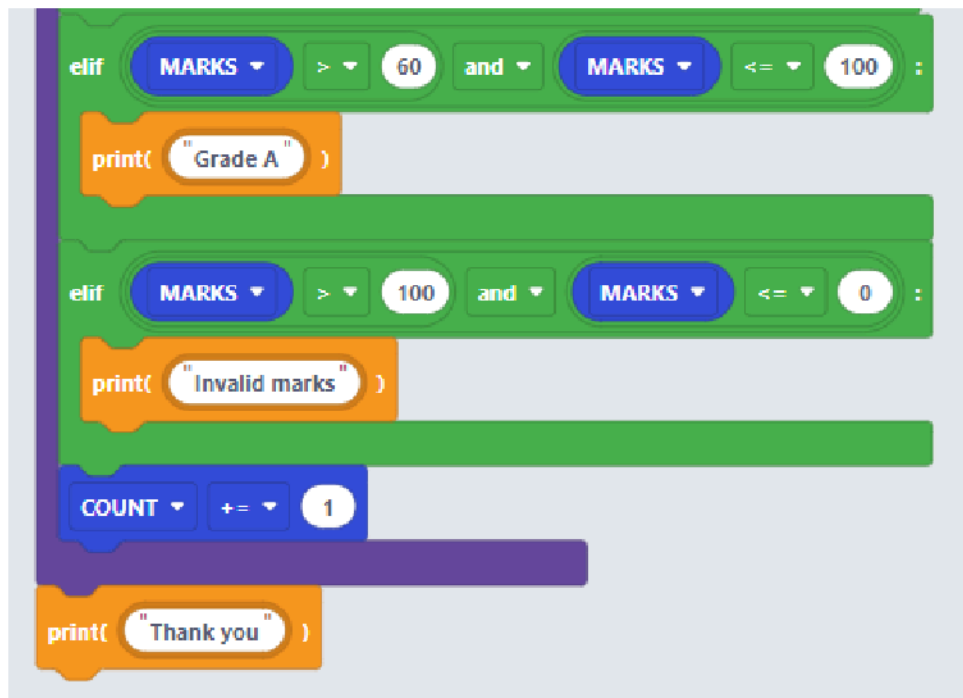
if MARKS > 0 and MARKS <= 30 :

print( "Grade C" )

elif MARKS > 30 and MARKS <= 60 :

print( "Grade B" )

# Program



# Syntax

```
1 #Start code here
2 COUNT = 0
3 NUMBER = int(input("How many students in the class are going to enter their marks"))
4 v while COUNT < NUMBER:
5     MARKS = int(input("Enter your marks"))
6 v     if MARKS > 0 and MARKS <= 30:
7         print("Grade C")
8 v     elif MARKS > 30 and MARKS <= 60:
9         print("Grade B")
10 v    elif MARKS > 60 and MARKS <= 100:
11        print("Grade A")
12 v    elif MARKS > 100 and MARKS <= 0:
13        print("Invalid marks")
14        COUNT += 1
15 print("Thank you")
16
```

# Apply & Create

## TASK 03:-

**</> WRITE A PROGRAM TO ENTER 10 STUDENT  
DATA-NAME, GRADES FOR MATH SUBJECT  
SAVE THE DATA FOR FURTHER ANALYSIS**

# Program

# Start code here

Students = [ ]

Grades = [ ]

for i in range(10):

Names = input("Enter your name ")

Names.append(Names)

Marks = int(input("Enter your marks "))

Grades.append(Marks)

print(Names)

print(Marks)

# Syntax

```
1 #Start code here
2 Students = []
3 Grades = []
4 v for i in range(10):
5     Names = input("Enter your name")
6     Names.append(Names)
7     Marks = int(input("Enter your marks"))
8     Grades.append(Marks)
9 print(Names)
10 print(Marks)
11
```

# ACTIVITY SHEETS

Question 1:  
What is variable?

- A. To store value
- B. To Fix value
- C. To change value
- D. None of the above



Question 2:  
What is Loop?

- A. To run code number of time
- B. To Change code number of time
- C. To Store code number of time
- D. None of the above

### Question 3:

Which of the following is the correct instruction to store new data in the list?

- A. append
- B. insert
- C. extend
- D. add.last

#### Question 4:

What are different types of operators?

- A. Assignment operator
- B. Arithmetic operator
- C. less than
- D. greater than

Question 5:

What is the difference between AND and OR operators, to get true output?

- A. both condition true in AND
- B. both condition true in OR
- C. both condition false in AND
- D. both condition false in OR

