9.	24/09/25	Implement Exceptions and Exception Handling in python	15	15/10/25
10.	24/09/25	Use the Matplotlib Module for plotting in Python		
11.	08/10/25	Use the Tkinter Module for UI design		
12.	08/10/25	Simulate gaming concepts Using pygame		
13.	15/10/25			

Input :-

Enter student marks : 120

Output :-

Error : Marks must be between 0 and 100

9/9/25 Task-9: Implement Exceptions and Exceptional handling in Python

(a) Student Marks Validation

Aim:- To write a python program that validates student marks and handles exceptions if the marks are invalid.

Algorithm:-

```
1. Start the program.
2. Accept marks input from the user.
3. Convert the input into an integer.
4. Check if marks are less than 0 or greater than 100.
5. If so, raise an exception with an appropriate message.
6. Use try except to catch and display the error
   message.
7. In valid, display the marks entered.
8. End the program.
```

Program:-

```
# Student marks validation
try:
    marks = int (input ("Enter student marks:"))
    if marks <0 or marks> 100;
        raise value Error ("Marks must be between 0 and 100")
    print("valid marks:", marks)
except value Error as e:
    print ("Error:", e)
```

Result:-

The program successfully validates student marks are and displays an error message for invalid input.

Input 1:

Enter numerator : 10

Enter denominator : 0

Output 1:

Error: Division by zero is not allowed.

Input 2:

Enter numerator : ten

Enter denominator : 2

Output 2 :

Error: Invalid input! please enter numeric values only.

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(b) Division Calculator With Exception Handling

Aim:- To write a python program that performs division of two numbers and handles exceptions like division by zero and invalid input.

Algorithm:-

```
1. Start the program
2. Use a try block to take two numbers as input
3. Convert the inputs into float or int
4. Perform division and display the result.
5. Use except to handle:
    . zero Division Error   if denominator is zero.
    . ValueError   if the input is not a valid number.
```

Program:-

```
#Division Calculator with Exception Handling
try:
    num1= float (input("Enter numerator:"))
    num2 = Float (input("Enter denominator:"))
    result =num1 /num2
    print("Result:", result)
except zero division Error:
    print ("Error : Division by zelo is not allowed:")
except value Error:
    print ("Error :Invalid input! please enter numeric values
    only")
```

VEL TECH-CSE	
EX NO.	9
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	[illegible]
SIGN WITH DATE	

15/10/25

Result:- The program correctly performs division and handles both invalid and division by zero errors.

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