Task 9: Implement Exceptions and Exceptional handling in python

Aim: To implement Exceptions and Exceptional handling in python.

Algorithm.

1) start the program.
2) Initializes a list of grade
3) Prompt the user to enter the index of the grade they wish to view.
4) Attempt to display the grade at the specified index

Program:

```
#initialize the list of grades
grades=[85,90,78,92,88]
#Display the grades list
print("Grades List", grades)
# prompt the user to enter the index of the grade
  they want to view
try:
    index=int(input("Enter the index of the grade you
                    want to view: "))
    #Attempt to display the grade at the specified index
    print(f"The grade at index {index} is: {grades[index]}")
except IndexError
    #Handle the case where the index is out of range
    print("Invalid index. Please enter a valid index")
```

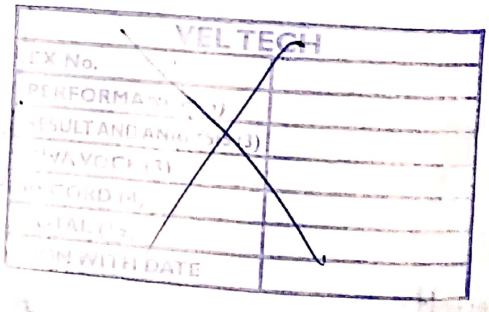
Result:

Output

Grades List [85, 90, 78, 92, 88]

Enter the index of grade you want to view : 6

Invalid index: Please enter a valid index



Result:

Thus the python programming implement and Exceptional handling.