# Python Practical Programs – Pranay Dodiya

## 1. Grade Checker

Code:

# Grade Checker  
score = int(input("Enter your score: "))  
  
if score >= 90:  
 grade = "A"  
elif score >= 80:  
 grade = "B"  
elif score >= 70:  
 grade = "C"  
elif score >= 60:  
 grade = "D"  
else:  
 grade = "F"  
  
print(f"Your grade is: {grade}")

Example Output:  
Enter your score: 85  
Your grade is: B

Explanation:  
- Uses if-elif-else to check ranges.  
- Prints grade based on score.

## 2. Student Grades (Dictionary Operations)

Code:

# Student Grades Dictionary  
students = {  
 "Pranay": "A",  
 "Rahul": "B",  
 "Neha": "C"  
}  
  
choice = input("Do you want to (A)dd or (U)pdate a student grade? ").lower()  
  
if choice == 'a':  
 name = input("Enter student name: ")  
 grade = input("Enter student grade: ")  
 students[name] = grade  
 print(f"{name} added with grade {grade}.")  
elif choice == 'u':  
 name = input("Enter student name to update: ")  
 if name in students:  
 grade = input("Enter new grade: ")  
 students[name] = grade  
 print(f"{name}'s grade updated to {grade}.")  
 else:  
 print(f"{name} not found.")  
else:  
 print("Invalid choice.")  
  
print("\nAll Student Grades:")  
for name, grade in students.items():  
 print(f"{name}: {grade}")

Example Output:  
Do you want to (A)dd or (U)pdate a student grade? a  
Enter student name: Anjali  
Enter student grade: B  
Anjali added with grade B.  
  
All Student Grades:  
Pranay: A  
Rahul: B  
Neha: C  
Anjali: B

Explanation:  
- Uses dictionary to store names and grades.  
- Can add or update grades.  
- Displays all grades at the end.

## 3. Write to a File

Code:

# Writing to a file  
with open("sample.txt", "w") as file:  
 file.write("Hello, this is Pranay's Python practical file.\n")  
 file.write("This file contains example text for testing.\n")  
  
print("File written successfully.")

Example Output:  
File written successfully.

Explanation:  
- Opens file in write mode.  
- Writes text using file.write().  
- Automatically closes file after writing.

## 4. Read from a File

Code:

# Reading from a file  
with open("sample.txt", "r") as file:  
 content = file.read()  
  
print("File contents:\n")  
print(content)

Example Output:  
File contents:  
  
Hello, this is Pranay's Python practical file.  
This file contains example text for testing.

Explanation:  
- Opens file in read mode.  
- Reads all content and prints it.