Python and Bash Assignment

# 1. Grade Checker

Code:  
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("Your grade is:", grade)  
  
Sample Output:  
Enter your score: 85  
Your grade is: B  
  
Explanation:  
- Takes input from user.  
- Uses if-elif-else to determine the grade.

# 2. Student Grades

Code:  
students = {}  
  
while True:  
 print("\n1. Add/Update Student\n2. Print All Students\n3. Exit")  
 choice = input("Enter your choice: ")  
  
 if choice == '1':  
 name = input("Enter student name: ")  
 grade = input("Enter student grade: ")  
 students[name] = grade  
 print(f"Added/Updated: {name} -> {grade}")  
 elif choice == '2':  
 print("\nStudent Grades:")  
 for name, grade in students.items():  
 print(f"{name} : {grade}")  
 elif choice == '3':  
 break  
 else:  
 print("Invalid choice.")  
  
Sample Output:  
1. Add/Update Student  
2. Print All Students  
3. Exit  
Enter your choice: 1  
Enter student name: Ravi  
Enter student grade: A  
Added/Updated: Ravi -> A  
  
Explanation:  
- Dictionary stores name: grade pairs.  
- Loop allows user to interact with the data.

# 3. Write to a File

Code:  
file = open("my\_notes.txt", "w")  
file.write("Hello, this is a file created by Python.\nWelcome to Linux + Python assignment.")  
file.close()  
print("Content written to my\_notes.txt")  
  
Sample Output:  
Content written to my\_notes.txt  
  
Explanation:  
- Uses open() with 'w' mode to write to a file.  
- Content written to 'my\_notes.txt'.

# 4. Read from a File

Code:  
file = open("my\_notes.txt", "r")  
content = file.read()  
print("File Contents:\n", content)  
file.close()  
  
Sample Output:  
File Contents:  
 Hello, this is a file created by Python.  
Welcome to Linux + Python assignment.  
  
Explanation:  
- Uses open() with 'r' mode to read a file.  
- read() fetches and displays the file content.

# Submission Guidelines

- Add Screenshots of terminal commands and output.  
- Upload code to a GitHub repository and attach the link.  
- Submit as Google Doc or Microsoft Word file.