

PRACTICAL 1

| Practical No | Details |
|--------------|---|
| 1. | <p>Control Flow with if, else, and Loops Write a program to calculate the grade of a student based on marks entered.</p> <ul style="list-style-type: none">• Use if-elif-else conditions to assign grades (e.g., A, B, C, D).• Use a for loop to input marks for 5 subjects and calculate the average.• Use a while loop to ask the user if they want to calculate another student's grade. |

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Control Flow with if, else, and Loops Write a program to calculate the grade of a student based on marks entered.

- Use if-elif-else conditions to assign grades (e.g., A, B, C, D).
 - Use a for loop to input marks for 5 subjects and calculate the average.
 - Use a while loop to ask the user if they want to calculate another student's grade.
-

while True:

 total = 0

```
    print("Enter marks for 5 subjects:-")
```

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```
for i in range(1, 6):
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    marks = float(input("Enter marks for subject " + str(i) + ": "))
```

```
    total += marks
```

```
average = total / 5
```

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if average >= 90:
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```
    grade = "A"
```

```
elif average >= 75:
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```
    grade = "B"
```

```
elif average >= 60:
```

```
    grade = "C"
```

```
elif average >= 40:
```

```
    grade = "D"
```

```
else:
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```
    grade = "F"
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```
print("Average Marks:", average)
```

```
print("Grade:", grade)
```

```
choice = input("Do you want to calculate another student's grade? (yes/no): ")
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if choice.lower() != "yes":
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```
    break
```

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IDLE Shell 3.11.3

```
File Edit Shell Debug Options Window Help
Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>> = RESTART: D:/1400 FYCS C KRISHNA KAMLESH SINGH/PYTHON/PRACTICAL/PRACTICAL 1.py
Enter marks for 5 subjects:-
Enter marks for subject 1: 85
Enter marks for subject 2: 95
Enter marks for subject 3: 75
Enter marks for subject 4: 85
Enter marks for subject 5: 96
Average Marks: 87.2
Grade: B
Do you want to calculate another student's grade? (yes/no): YES
Enter marks for 5 subjects:-
Enter marks for subject 1: 85
Enter marks for subject 2: 96
Enter marks for subject 3: 75
Enter marks for subject 4: 78
Enter marks for subject 5: 98
Average Marks: 86.4
Grade: B
Do you want to calculate another student's grade? (yes/no): NO
>>>
```