

**Title:** Attendance Project

**Name:** Prince Mahar

**Roll No:** 25BCE10429

**Course:** Introduction to Problem Solving and Programming

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## 1. Introduction

I made a small Python program for marking attendance.

The program runs in the terminal.

It helped me understand basic Python like input, loops and storing data.

The aim was to make a simple working project using what I learnt.

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## 2. Objective

The main objectives of my project were:

- to add students and mark them present or absent
- to show all the attendance
- to show a small summary of total, present and absent

I wanted to make something easy to understand and simple to use.

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### **3. Tools Used**

I used **Python** only.

No extra libraries were needed.

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### **4. Working of the Program**

The program shows a menu with 4 options.

The user can select:

1. Add attendance
2. Show all attendance
3. Attendance summary
4. Quit

I used a dictionary in Python to store the student names and their status.

For present I stored “present”, and for absent I stored “absent”.

The summary is calculated using simple counting.

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### **5. Code Explanation (Short)**

- records = {} is used to store the data
- take\_attendance() takes the name and p/a
- show\_records() prints the list
- analyse\_records() prints total, present, absent and percentage
- menu() keeps the program running until user quits

The code is simple and uses only loops, if-else and a dictionary.

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## 6. Screenshots

## **== MENU ==**

- 1. Add attendance**
- 2. Show all attendance**
- 3. Attendance summary**
- 4. Quit**

Choose between 1-4: 1

**-- MARK ATTENDANCE --**

Student name (type STOP to go back): Simran  
Present or Absent? (p/a): p

**-- MARK ATTENDANCE --**

Student name (type STOP to go back): Prince  
Present or Absent? (p/a): p

**-- MARK ATTENDANCE --**

Student name (type STOP to go back): Krish  
Present or Absent? (p/a): a

**-- MARK ATTENDANCE --**

Student name (type STOP to go back): STOP

```
Choose between 1-4: 3
```

```
== SUMMARY ==
```

```
Total students : 3
```

```
Present : 2
```

```
Absent : 1
```

```
Attendance % : 66.67
```

```
Choose between 1-4: 2
```

```
== ATTENDANCE LIST ==
```

```
simran --> present
```

```
prince --> present
```

```
krish --> absent
```

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## 7. Conclusion

By making this project I understood how to take user input, store it, and show it again.

I also learned how to use dictionaries in Python.

The project is small, but it helped me practice basic programming.

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## **8. References**

None.

I wrote the code on my own.