



**PROJECT REPORT
ON
COURSES
SUBMITTED TO
DEPARTMENT OF COMPUTER SCIENCE
UNDER THE SUPERVISION OF
DR. AMANDEEP KAUR**

Submitted By:

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1st Semester

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CONTENTS

Title	Page No.
1. Declaration	1
2. Acknowledgement	2
3. Guidelines and Principles	3
4. About Project	
4.1 Introduction	
4.2 Description	
5. Conclusion	

DECLARATION

We hereby declare that the courses submitted as part of Bachelor's degree in CSE, at Chitkara University, Punjab, is an authentic record of our own work carried out under the supervision of Dr. Amandeep Kaur.

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ACKNOWLEDGEMENT

We have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. We would like to extend our sincere thanks to all of them.

We are highly indebted to Dr. Amandeep Kaur for their guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in completing the project.

We would like to express our gratitude towards our parents & members of CSE Department for their kind cooperation and encouragement which helped us in completion of this project.

We would like to express our special gratitude and thanks to industry persons for giving us such attention and time.

Our thanks and appreciation also go to our colleague in developing the project and people who have willingly helped us out with their abilities.

HISTORY OF PYTHON

Python is a widely-used general-purpose, high-level programming language. It was initially designed by Guido van Rossum in 1991 and developed by Python Software Foundation. It was mainly developed for emphasis on code readability, and its syntax allows programmers to express concepts in fewer lines of code.

The language was finally released in 1991. When it was released, it used a lot fewer codes to express the concepts, when we compare it with Java, C++ & C. Its design philosophy was quite good too. Its main objective is to provide code readability and advanced developer productivity. When it was released it had more than enough capability to provide classes with inheritance, several core data types exception handling and functions.

Python has come a long way to become the most popular coding language in the world. Python has just turned 30 and just recently at pycon22(python conference) a new feature was released by Anaconda foundation it's known as py script with this now python can be written and run in the browser like javascript which was previously not possible.

Python 3.10.4 is the latest stable version.

Python has vast libraries for various fields such as Machine Learning (Numpy, Pandas, Matplotlib), Artificial intelligence (Pytorch, TensorFlow), and Game development (Pygame,Pyglet).

In this python project, we require a random module.

Tabulate Module

Tabulate is an open-source python package/module which is used to print tabular data in nicely formatted tables. It is easy to use and contains a variety of formatting functions.

INTRODUCTION OF PROJECT

This is a simple score card program which uses a Tabulate module for generating the table in the project. Data in the managed way is need of everybody so that to understand it quickly. The objective of this project is to maintain the data of their scores and percentages in the form of tables to provide ease of access to that data.

In this program user have to first specify for how many students he/she wants to store data then name of the student then corresponding marks as shown in screen then after typing all marks then another student name and it again asks for marks as previously asked and the code will goes on till it covers the number of student that user defined in starting.

There are steps followed:

- **Importing Module**
- **Ask input from user**
- **Generate Table with data**

1.Importing Module:

```
import Tabulate module
```

2.Ask input from user:

3.Generate Password in output window:

Generate a Table with data of n number of students that user defined with all data

Program Code

```

: import os
from tabulate import tabulate
count=0
data = []
col_names = ["Sr No.", "Name", "MCP", "BEE", "English", "Python", "Total Marks", "Percent", "Result"]
print()
n=int(input("Number of student for which you want data :"))
for i in range(1,n+1):
    count=0
    sr=i
    name=input()
    mcp=int(input("MCP Marks : "))
    if(mcp<35):
        count=count+1
    print()
    eng=int(input("English Marks : "))
    if(eng<35):
        count=count+1
    print()
    bee=int(input("BEE Marks : "))
    if(bee<35):
        count=count+1
    print()
    python=int(input("Python Marks: "))
    if(python<35):
        count=count+1
    if(count>0):
        Result="Fail"
    else:
        Result="Pass"
    Total=mcp+bee+eng+python
    percentage=(Total/400)*100
    print()
    print("Total marks are:",Total)
    print()
    data_1=[sr,name,mcp,bee,eng,python>Total,percentage,Result]
    for j in range(i,i+1,1):
        data.append(data_1)
print("Class:12")
print("                                SCORE CARD")
print()
print(tabulate(data, headers=col_names))

```


Output Window

Number of student for which you want data :2

Paras

MCP Marks : 45

English Marks : 43

BEE Marks : 66

Python Marks: 77

Total marks are: 231

Vansh

MCP Marks : 45

English Marks : 99

BEE Marks : 65

Python Marks: 68

Total marks are: 277

Class:12

SCORE CARD

Sr No.	Name	MCP	BEE	English	Python	Total Marks	Percent	Result
1	Paras	45	66	43	77	231	57.75	Pass
2	Vansh	45	65	99	68	277	69.25	Pass

CONCLUSION

After doing this python project, we got to know how to import modules and how to use Tabulate module and more about tables and string.

