Project Report

Title: Scientific Calculator

BACHELOR OF TECHNOLOGY

Computer Science and Engineering

(2022-2026)

Submitted to

Dr. Parnika Bhat

LOVELY PROFESSIONAL UNIVERSITY

PHAGWARA, PUNJAB



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INTRODUCTION

Me and my teammate got a wonderful opportunity to work on the Python project under our Python teacher Dr. Parnika Bhat's guidance.

The topic assigned to us is a scientific calculator that can perform following functions-

- 1) Add, sub, multiply, divide, and mod (%) operations on entered integer or floating type numbers.
- 2) Square root, exponent (power (a, b))
- 3) sine, cosine, and tangent (Trigonometric functions).
- 4) Conversion from radian to degree and degree to radian.

In this project, we used our knowledge of the Python programming language to implement the necessary code. This program can help anyone struggling to do scientific calculations.

Aspects of our program are-

Math function, Input function, Range function, Conditional branching statement, loop structures (iterative statements) and break statement.

-- PYTHON CODE --

```
print("Type 'exit' to take Exit From Program")
```

```
elif choice=='sin':
    val=eval(input("Value(Sin_): "))
    print("Result ", math.sin(val))
elif choice=='cos':
    val=eval(input("Value(Cos_): "))
    print("Result ", math.cos(val))
elif choice=='tan':
    val=eval(input("Value(Tan_): "))
    print("Result ", math.tan(val))
elif choice=='rad':
    val=eval(input("Radian: "))
    print("Degree", math.degrees(val))
elif choice=='deg':
    val=eval(input("Degree: "))
    print("Radian", math.radians(val))
elif choice=='exit':
    break
else:
    print("\nInvalid Input!")
print("\nThank You:)")
```

CONCLUSION

It was a wonderful and educational experience for me and my teammate while working on this project. This project took me and my teammate through the various phases of python programming and gave us a real insight into the world of programing. The joy of working involved while tackling the various problems and challenges gave us the motivation to do more projects.

This project made us test our knowledge about Python language.

We really enjoyed making this project and successfully completing it on time.

-- Thank You --