A MINI PROJECT

PYTHON PROJECT

SCIENTIFIC CALCULATOR

UNDER THE GUIDANCE

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SUBMITTED TO

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SUBMITTED BY

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TECHNOLOGIES USED

- PYTHON PROGRAMMING LANGUAGE

- Python is a computer programming language often used to build websites and software, automate tasks, and conduct data analysis. Python is a general-purpose language, meaning it can be used to create a variety of different programs.
- Python is also use to testing purposes, management and build control .

Project – Scientific Calculator

- TITLE – Scientific Calculator
- OBJECTIVE – To build a scientific calculator which can perform all the operations stated below:

- ADDITION(+), SUBTRACTION(-), MULTIPLICATION(*),DIVISION(/), MOD(%) for the input integer.
- SQUARE ROOT, EXPONENT(^)(power(a,b))
- TRIGNOMETRIC FUNCTIONS ("sine, cosine, tangent ,etc")
- Conversion from radian to degree and degree to radian .

- The above stated fuctions can be performed as many number of times by the user.

CODE USED

```
import math
c = input("Enter an operator: ")
if c in ["+","-","*","/","//","%","**"]:
    a = float(input("Enter the 1st number: "))
    b = float(input("Enter the second number: "))
    if  c == "+":
        print("result:",a + b)
    elif c == "-":
        print("result:",a-b)
    elif c == "*":
        print("result:",a*b)
    elif c == "/":
        print("result:",a/b)
```

```
    elif c == "/":
        print("result:",a/b)
    elif c == "//":
        print("result:",a//b)
    elif c == "%":
        print("result:",a%b)
    elif c == "**":
        print("result:",a**b)
elif c in ["sin","cos","tan","cosec","sec","cot"]:
    d = float(input("Enter the number: "))
    if c == "sin":
        print("result:",math.sin(d))
    elif c == "cos":
        print("result:",math.cos(d))
    elif c == "tan":
        print("result:",math.tan(d))
else:
    print("Enter correct value! ")
```

```
    elif c =="cot":
        print("result:",math.cot(d))
    elif c =="sec":
        print("result:",math.sec(d))
    elif c =="cosec":
        print("result:",math.cosec(d))
elif c in ["radian","degree"]:
    if c == "radians":
        e = float(input("Enter value in degree: "))
        print("result:",math.radians(e))
    elif c == "degrees":
        e = float(input("Enter value in radian: "))
        print("result:",math.degrees(e))
    else:
print("Enter correct value ")
```