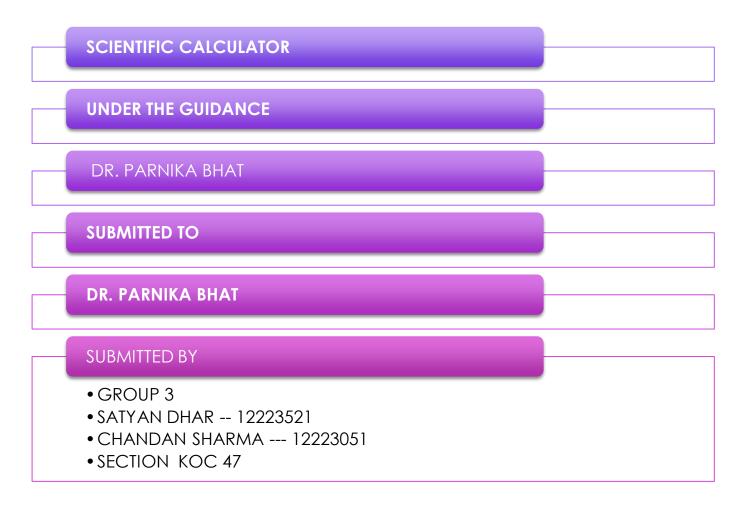
#### A MINI PROJECT

## PYTHON PROJECT



### 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 ")
```