1.write calculator program in python

```
#basic calculator
first—input("enter first number")
second=input("enter second number") operator=input("enter operator(+,-,*,/ %)" first=int(first)
    second=int(second) if operator=="+":
            print(first+second) elif operator==" " :print(first-second)
    elif operator— ="*":print(first*second) elif operator= " :
    print(first/second) elif operator— ="%":print(first% second)
    else:
            print("lnvalid operator")

    example2.py dents=["sai" , "priya" , " darshini "]for student in students:
            if student — "priya"• break; print(student)

       dents=["sai " , "priya" , "darshini "]for student in students:
            if student — "priya"• continue; print(student)
    marks=(95,98,97,97)
    print(marks.count(97))

             "english" : 100, "maths " : 80) print(marks["maths"]);
    #function #max num def max(a,b):
            if a>=b:
                    return a else:
                                    return b

    a=2

    print(max(a,b))


    #call by value def check(str): str="hello world"; print(str)

    name="hello" check(name) print("outer---    "+name)


    #call by reference def add(list) list.append(50) print(list)

    mylist=[10,20] add(mylist) print("outer-----") print(mylist)
```

Flask

aPP.PY

```
from flask import Flask from flask import redirect,url_for
app=Flask(_name_) @app.route("/") def home():
        return "<h1>Welcome to Flask"</hl>" @app.route("/courses") def
courses():
                                        return "<h1>Welcome to courses</hl>"
@app.route("/hello")
def hello():
                                         return "<h1>Welcome to debugl</hl>"
@app.route('/<name>')
def name(name):
                        return f"hello {name} "

@app.route("/admin")

def admin():
        return redirect("/") if name      main ':
app.run(debug=True)
```

2.write a program to concatenate,reverse and slice a string

```
def reverse(s):
 str = ""
 for i in s:
 str = i + str
 return str
s = "Inventory control management
print("The original string is : ", end="")
print(s)
print("The reversed string(using loops) is : ", end="")
print(reverse(s))
```

3.why is python programming a popular language?

python is easy to learn .It uses a simplified syntax with an emphasis on natural language, for a much easier learning curve for beginners. And, because Python is free to use and is supported by an extremely large ecosystem of libraries and packages, it's often the first-choice language for new developers.

4.what are the frameworks that can be used with python?

AIOHTTP,Bottle,CherryPy,CubicWeb,Dash,Django,Falcon,Flask,Giotto,growler

5.full form of WSGI?

The Web Server Gateway Interface (WSGI, pronounced whiskey or WIZ-ghee) is a simple calling convention for web servers to forward requests to web application or frameworks written in the Python programming language. The current version of WSGI, version 1.0