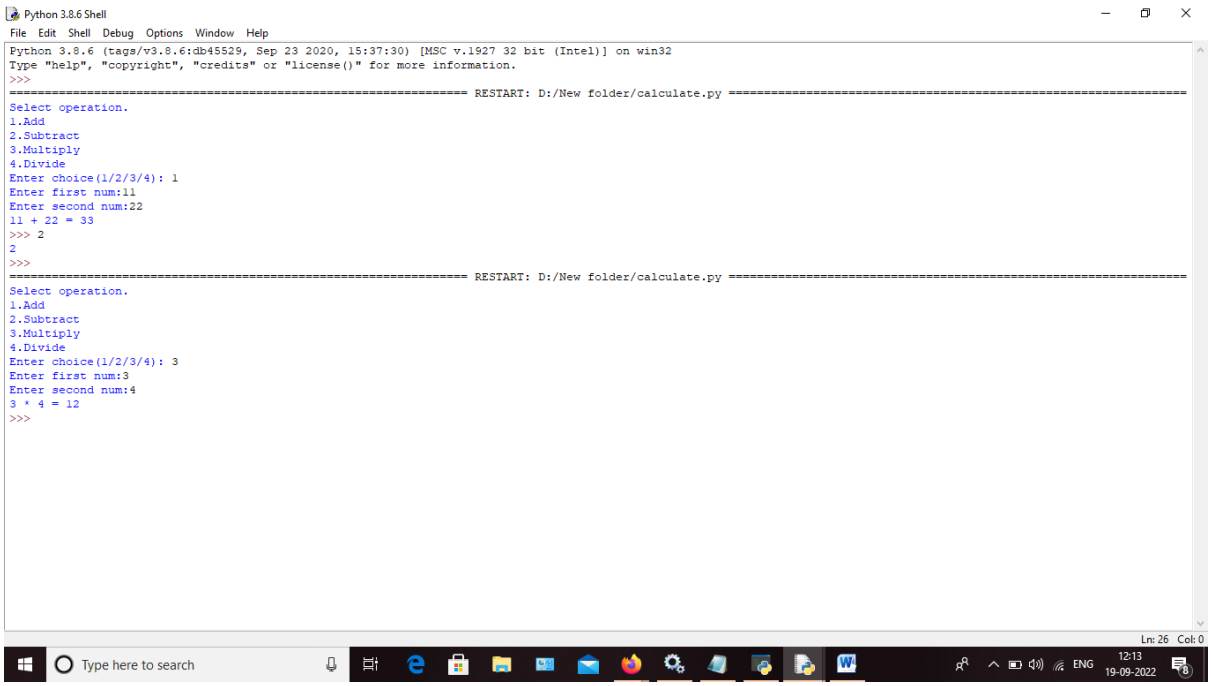
1.Write a Calculated Program

```
def add(x, y):
    return x + y
def subtract(x, y):
    return x - y
def multiply(x, y):
    return x * y
def divide(x, y):
    return x / y
print("Select operation.")
print("1.Add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")
choice = input("Enter choice(1/2/3/4): ")
num1=int(input("Enter first num:"))
num2=int(input("Enter second num:"))
if choice =='1':
print(num1,"+",num2,"="add(num1,num2))
elif choice =='2':
print(num1,"-",num2,"="substract(num1,num2))
elif choice =='3':
print(num1,"*",num2,"="multiply(num1,num2))
elif choice =='4':
print(num1,"/",num2,"="divide(num1,num2))
 else:
print("Invalid input")
```

Output



2.List program (append,pop,insert,sort,reverse,remove,print)

a=[1,2,3,4]

a.append(66)

a.pop()

a.insert(2,10)

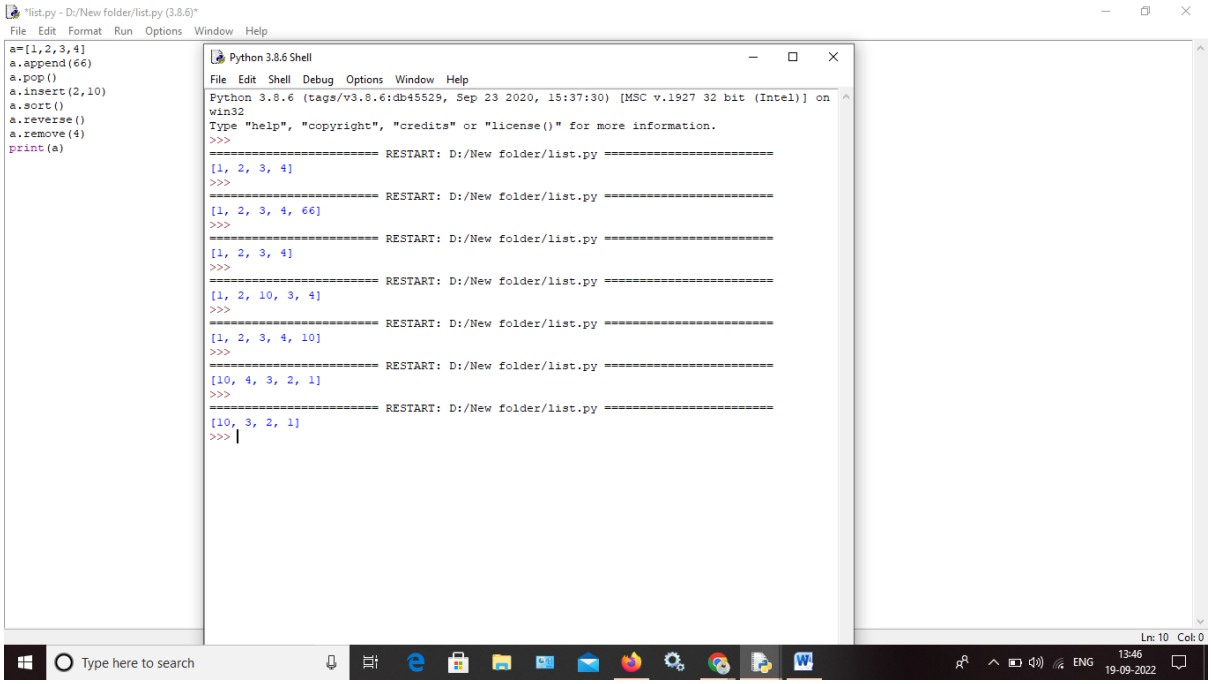
a.sort()

a.reverse()

a.remove(4)

print(a)

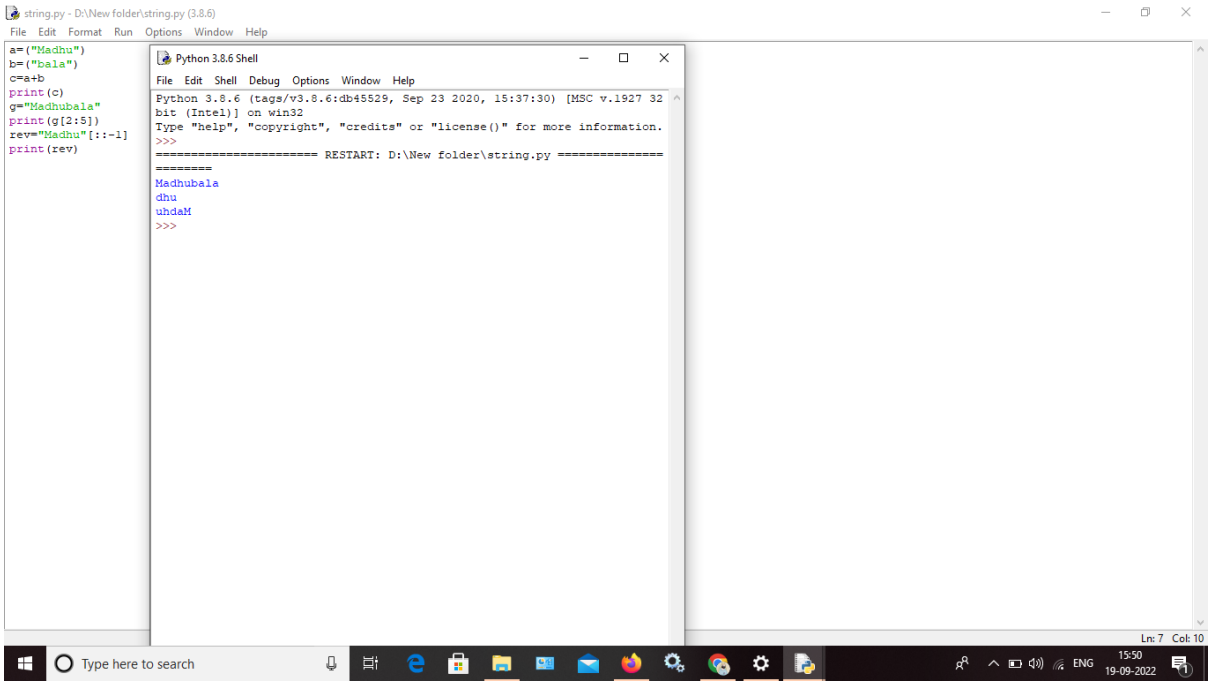
output:



3.String(Concatenate,Slice,Reverse)

```
a=("Madhu")

b=("bala")

c=a+b

print(c)

g="Madhubala"

print(g[2:5])

rev="Madhu"[::-1]

print(rev)
```

output:



4.why is python a popular programming language?

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.

5. What are the other frameworks that can be used with Python?

- Bottle.
- Flask.
- Django.
- Web2py.
- AIOHTTP.
- CherryPy.
- Dash.
- Falcon.

6.Full form of WSGI?

WSGI stands for "**Web Server Gateway Interface**". It is used to forward requests from a web server (such as Apache or NGINX) to a backend Python web application or framework.