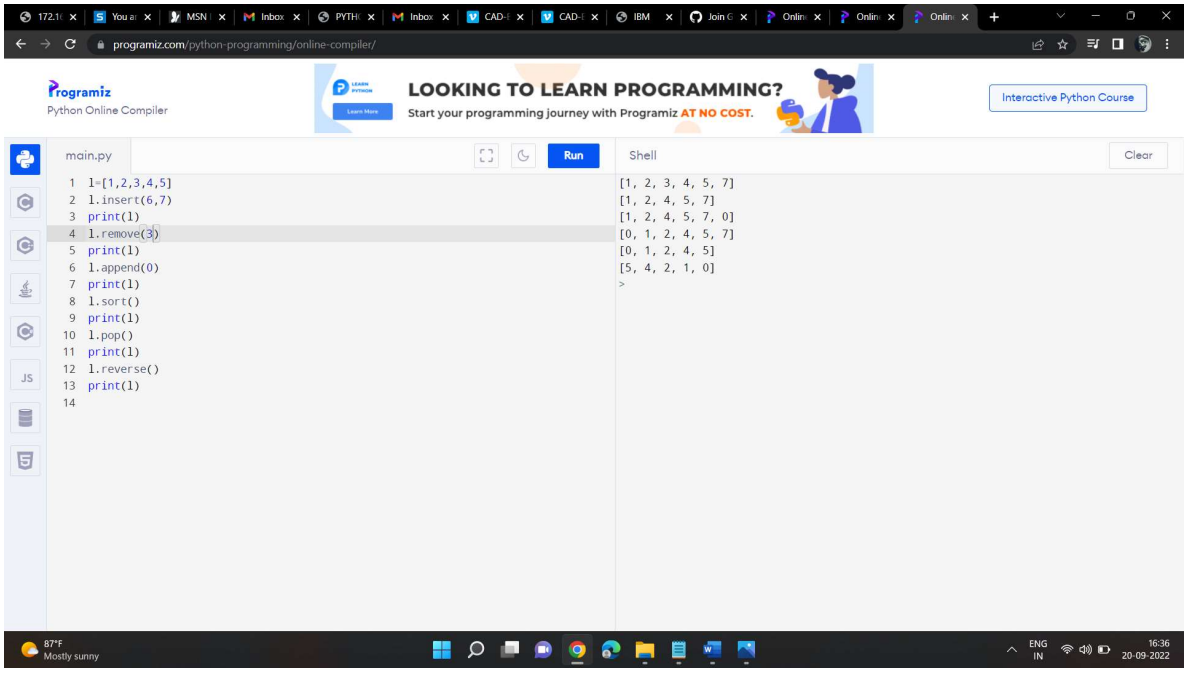
PYTHON ASSIGNMENT

QUESTION 1

```
l=[1,2,3,4,5]

l.insert(6,7)

print(l)

l.remove(3)

print(l)

l.append(0)

print(l)

l.sort()

print(l)

l.pop()

print(l)

l.reverse()

print(l)
```

OUTPUT:-

```
[1, 2, 3, 4, 5, 7]
[1, 2, 4, 5, 7]
[1, 2, 4, 5, 7, 0]
[0, 1, 2, 4, 5, 7]
[0, 1, 2, 4, 5]
[5, 4, 2, 1, 0]
>
```



QUESTION 2

```
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 = float(input("Enter first
number: ")) num2 = float(input("Enter second
number: ")) if choice == '1': print(num1, "+",
num2, "=", add(num1, num2))

elif choice == '2': print(num1, "-", num2, "=",
    subtract(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:-

Select operation.

1.Add

2.Subtract

3.Multiply

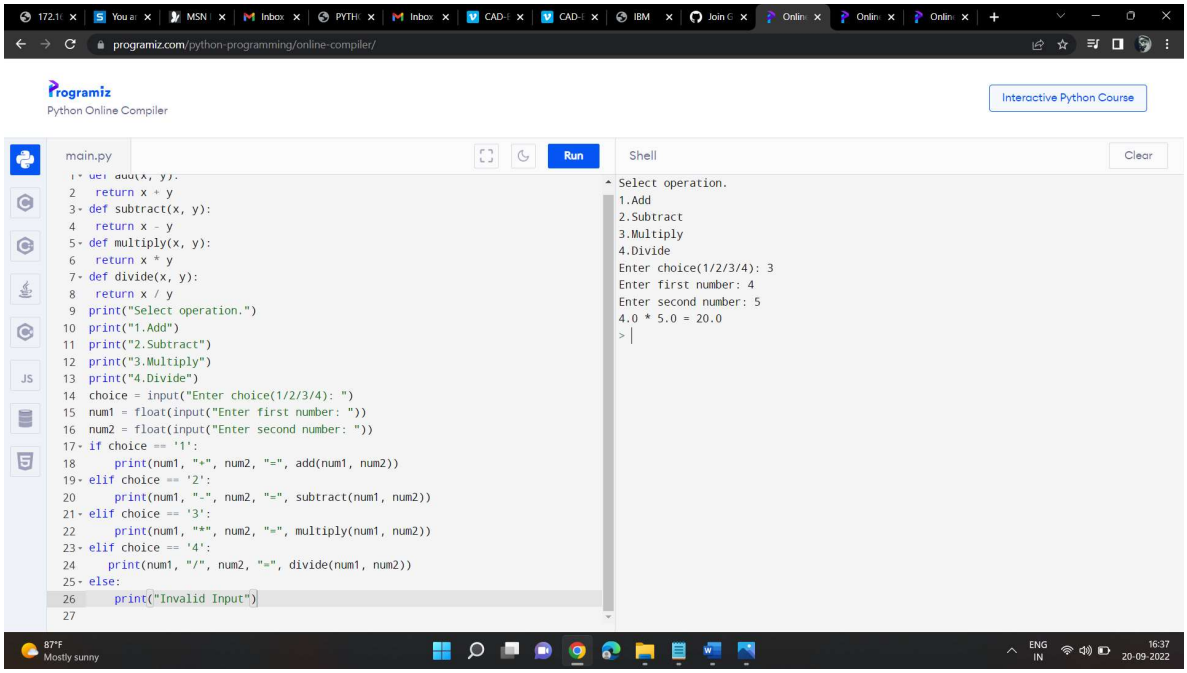
4.Divide

Enter choice(1/2/3/4): 3

Enter first number: 4

Enter second number: 5

4.0 * 5.0 = 20.0



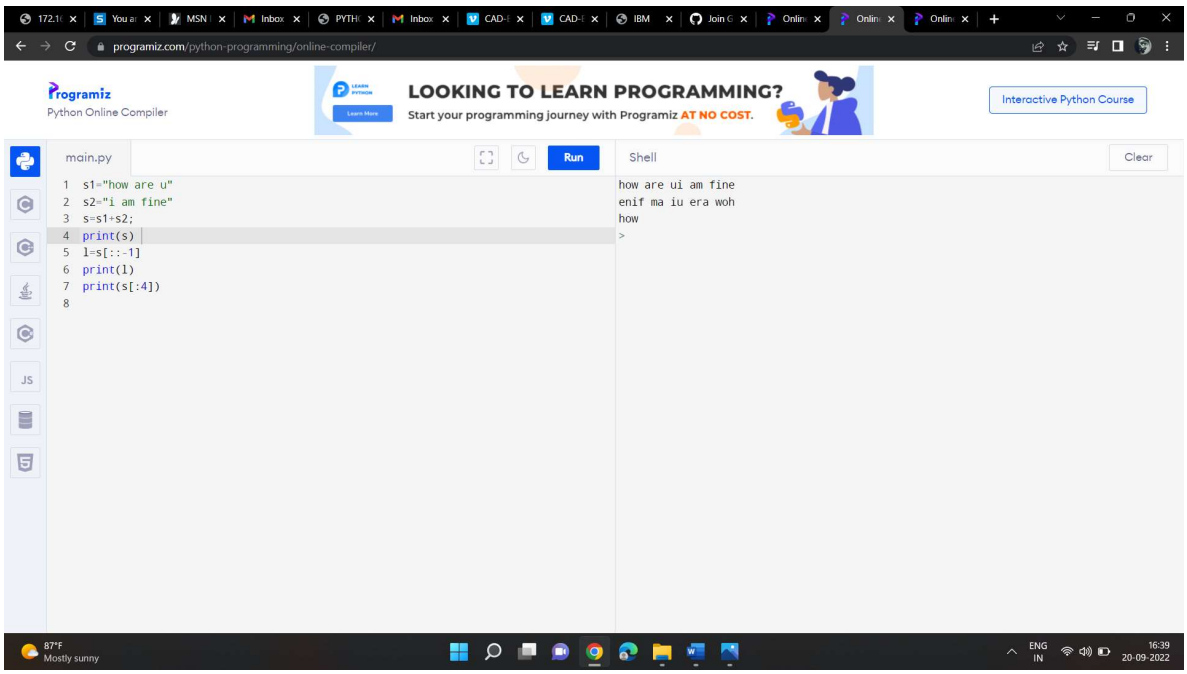
Question 3

s1="how are u"

```
s2="i am fine"

s=s1+s2;

print(s)

l=s[::-1]

print(l)

print(s[:4])
```

Output:-

```
how are ui am fine

enif ma iu era woh

how
```



Question 4: Why is so a popular programming language?

That's because the language emphasizes readability and makes coding very easy. Python is also the fastest-growing programming language in the world. Its high-level, interpreted, and object-oriented architecture makes it ideal for all types of software solutions.

6 reasons the Python programming language is so popular

- Ease of use. Since its creation in the late 1980s by Guido van Rossum, Python has been specifically designed to be a general-purpose language..
- Supportive community.
- Corporate sponsors.
- Libraries and frameworks.
- Use in big data and machine learning.
- Efficiency.
-

Question 5:-Frameworks in python

Python Frameworks ·

1. AIOHTTP
2. Bottle
3. CherryPy
4. CubicWeb
5. Dash
6. Django
7. Falcon
8. Flask

Question 6:-Full form of WSGI

WSGI (Web Server Gateway Interface) is an interface between web servers and web apps for python