PYTHON ASSIGNMENT

QUESTION 1

```
l=[1,2,3,7,8]

l.insert(9,0)

print(l)

l.remove(3)

print(l)

l.append(5)

print(l)

l.sort()

print(l)

l.pop()

print(l)

l.reverse()

print(l)
```

OUTPUT:-
```
[1, 2, 3, 7, 8, 0]
[1, 2, 7, 8, 0]
[1, 2, 7, 8, 0, 5]
[0, 1, 2, 5, 7, 8]
[0, 1, 2, 5, 7]
[7, 5, 2, 1, 0]
```

Programiz
Python Online Compiler

main.py   Run   Shell   Clear

```python
1  l=[1,2,3,7,8]
2  l.insert(9,0)
3  print(l)
4  l.remove(3)
5  print(l)
6  l.append(5)
7  print(l)
8  l.sort()
9  print(l)
10 l.pop()
11 print(l)
12 l.reverse()
13 print(l)
14
```

```
[1, 2, 3, 7, 8, 0]
[1, 2, 7, 8, 0]
[1, 2, 7, 8, 0, 5]
[0, 1, 2, 5, 7, 8]
[0, 1, 2, 5, 7]
[7, 5, 2, 1, 0]
>
```

87°F
Mostly sunny
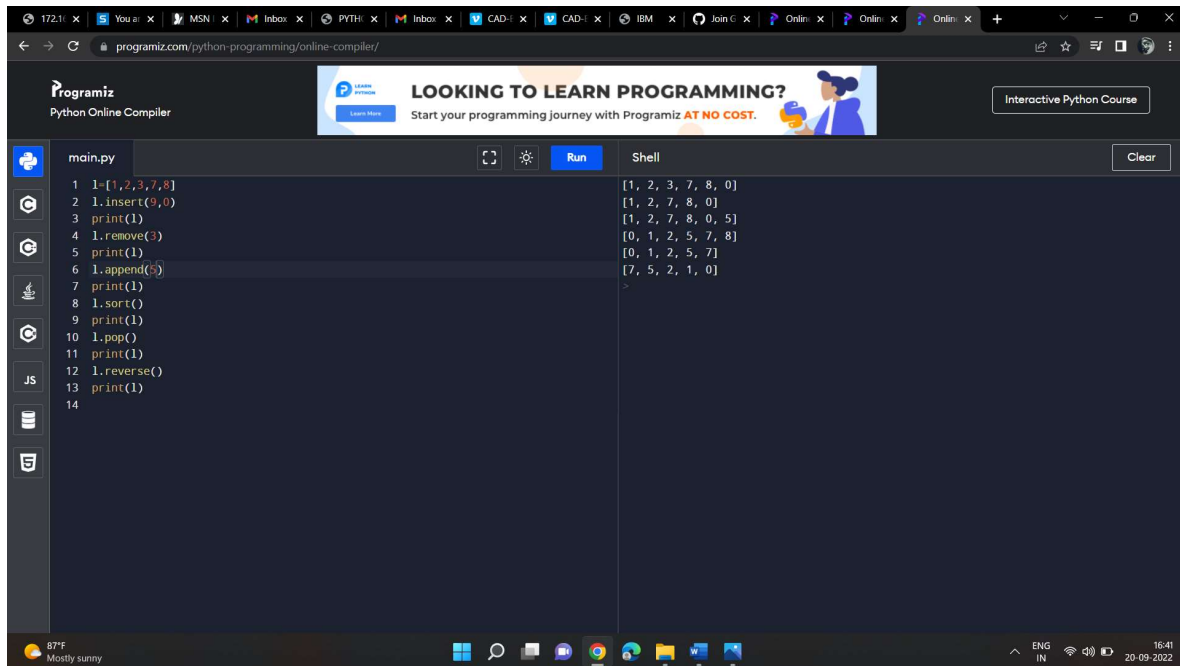
QUESTION 2

```python
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): 4

Enter first number: 10

Enter second number: 5
```
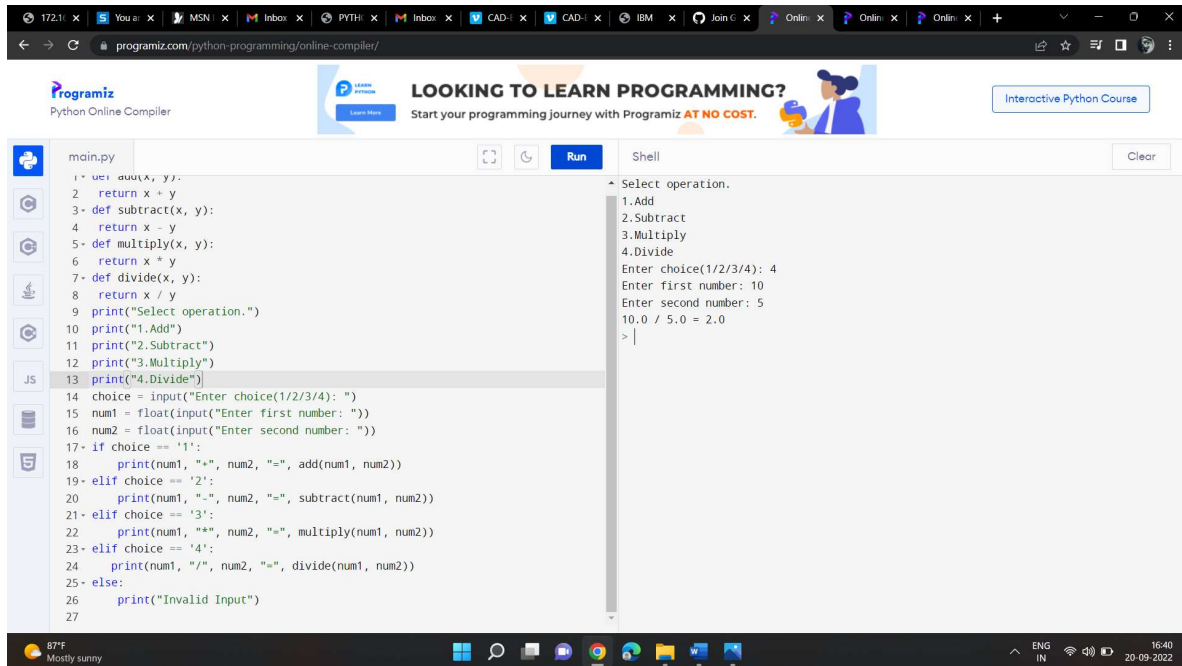
10.0 / 5.0 = 2.0

Question 3

s1="hello"

s2="hi"

s=s1+s2;

print(s)

l=s[::-1]
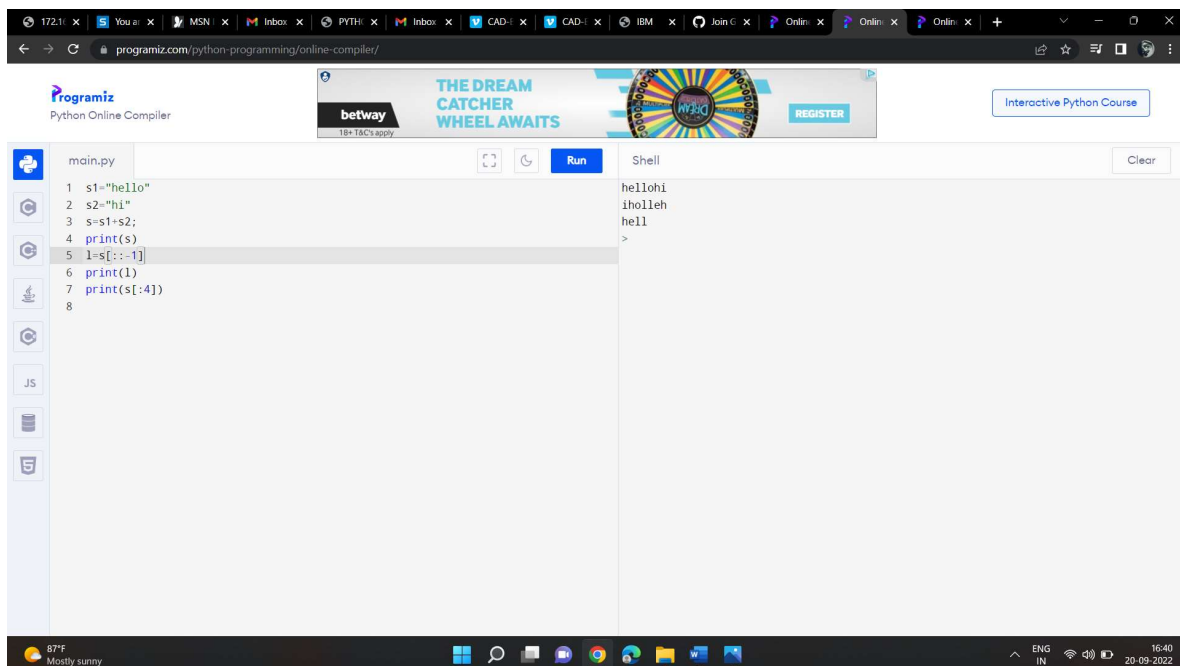
print(l)

print(s[:4])

Output:-

hellohi

iholleh

hell

>

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