

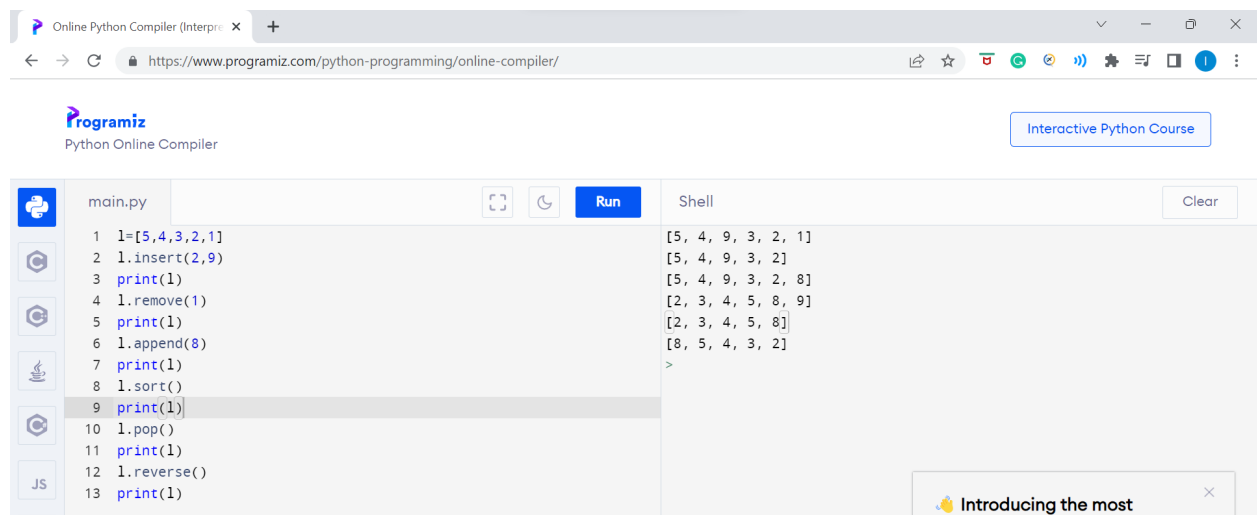
PYTHON ASSIGNMENT

QUESTION 1

```
l=[5,4,3,2,1]
l.insert(2,9)
print(l)
l.remove(1)
print(l)
l.append(8)
print(l)
l.sort()
print(l)
l.pop()
print(l)
l.reverse()
print(l)
```

OUTPUT:-

```
[5, 4, 9, 3, 2, 1]
[5, 4, 9, 3, 2]
[5, 4, 9, 3, 2, 8]
[2, 3, 4, 5, 8, 9]
[2, 3, 4, 5, 8]
[8, 5, 4, 3, 2]
```



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): 1
Enter first number: 2
Enter second number: 3
2.0 + 3.0 = 5.0
```

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Interactive Python Course

main.py

```
1- def add(x, y):  
2-     return x + y  
3- def subtract(x, y):  
4-     return x - y  
5- def multiply(x, y):  
6-     return x * y  
7- def divide(x, y):  
8-     return x / y  
9- print("Select operation.")  
10- print("1.Add")  
11- print("2.Subtract")  
12- print("3.Multiply")  
13- print("4.Divide")  
14- choice = input("Enter choice(1/2/3/4): ")  
15- num1 = float(input("Enter first number: "))  
16- num2 = float(input("Enter second number: "))  
17- if choice == '1':  
18-     print(num1, "+", num2, "=", add(num1, num2))  
19-  
20- elif choice == '2':
```

Run

Shell

Select operation.
1.Add
2.Subtract
3.Multiply
4.Divide
Enter choice(1/2/3/4): 1
Enter first number: 2
Enter second number: 3
2.0 + 3.0 = 5.0
>

Clear

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Question 3

```
s1="Hii! "  
s2="How are you ?"  
s=s1+s2;  
print(s)  
l=s[::-1]  
print(l)  
print(s[:4])
```

Output:-

```
Hii! How are you ?  
? uoy era woH !iiH  
Hii!
```

```
1 s1="Hii! "
2 s2="How are you ?"
3 s=s1+s2;
4 print(s)
5 l=s[::-1]
6 print(l)
7 print(s[:4])
```

Shell

```
Hii! How are you ?
? uoy era woH !iiH
Hii!
>
```

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