**Module 3: Python Assignment**

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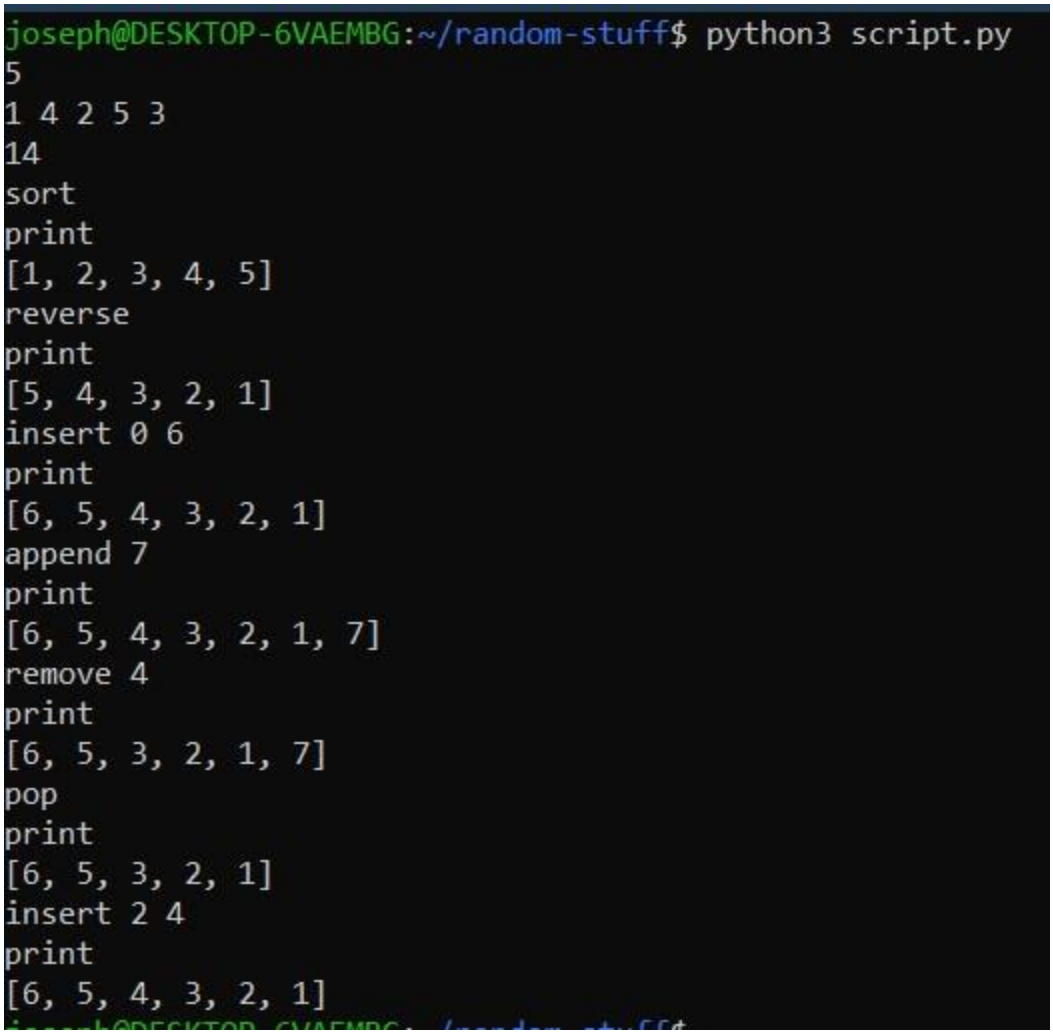
**List operations**

**Code**

```
# Enter the initial size of the list
n = int(input())

# Enter the initial contents of the list
l = list(map(int, input().split()))

# Enter the number of commands
m = int(input())

# Enter and process the commands
for i in range(m):
    command = input() command_name =
    command.split()[0]

    if command_name == "insert":
        _, i, e = command.split()
        l.insert(int(i), int(e))
    elif command_name == "print":
        print(l)
    elif command_name == "remove":
        _, e = command.split()
        l.remove(int(e))
    elif command_name == "append":
        _, e = command.split()
        l.append(int(e))
    elif command_name == "sort":
        l.sort()
    elif command_name == "pop":
        l.pop()
    elif command_name == "reverse":
        l.reverse()
```

**Output**



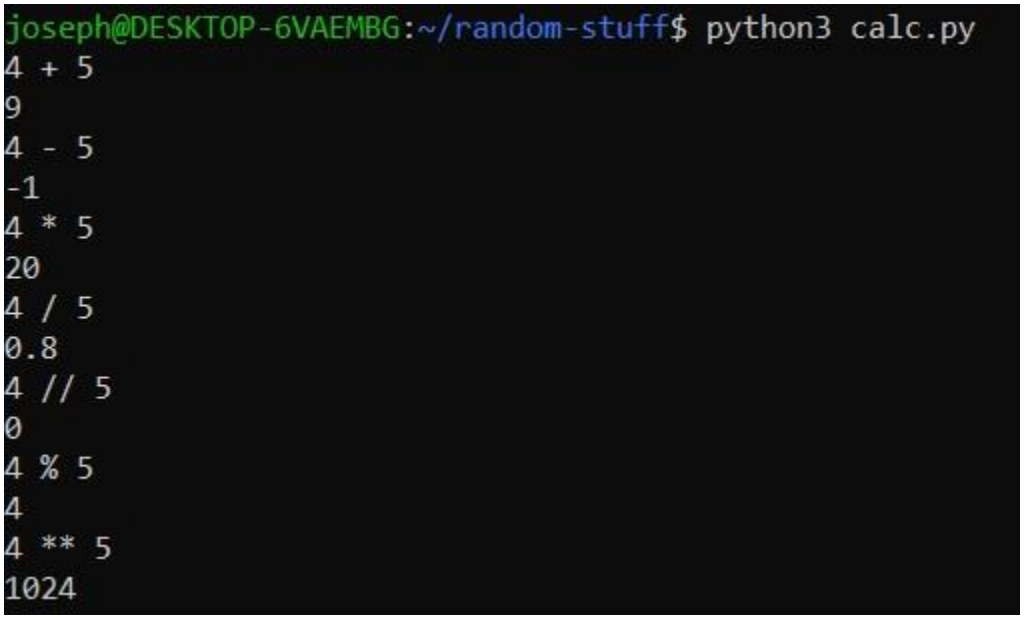

**2. Calculator**

**Code**

```
while True:
    a, op, b = tuple(input().split())
    a, b = int(a), int(b) if op ==
    "+":
        print(a + b)
    elif op == "-":
        print(a - b)
    elif op == "*":
        print(a * b)
    elif op == "/":
        print(a / b) elif
        op == "//":
```

```
        print(a // b)
    elif op == "%":
        print(a % b)
    elif op == "**":
    print(a ** b)
```

**Output**




**3. String operations**

**Code**

```
s = "hello"
t = "world"

# Concatenate s and t
print(s + t)

# Reverse s print(s[::-
1])

# Slice s

print(s[1:3])
```

**Output**

```
joseph@DESKTOP-6VAEMBG:~/random-stuff$ python3 string.py
helloworld
olleh
el
```

**4. Why is Python a popular programming language?**

- Python is easy to learn
- Python has an active community ● Python is flexible
- Python efficient, fast and reliable

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

- Web2Py
- Flask
- Bottle
- CherryPy

**6. What is the full form of WSGI?**

The full form of WSGI is Web Server Gateway Interface.