

Q: Explain SDLC in detail.

Q: Explain DBMS architecture.

Q: Explain Operating System concepts.

Q: Explain Computer Networks.

Q: Explain Cloud Computing.

Cloud computing provides on-demand computing services.
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Q: JWT Authentication in Python.

```
def create_token(user):
    token = user + "_token"
    return token

def verify_token(token):
    return token.endswith("_token")

for i in range(20):
    print(create_token("user"))

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    token = user + "_token"
    return token

def verify_token(token):
    return token.endswith("_token")

for i in range(20):
    print(create_token("user"))
```

Q: CRUD using Python.

```
data = []

def create(item):
    data.append(item)

def read():
    return data
```

```
def update(index, value):
    data[index] = value

def delete(index):
    data.pop(index)

for i in range(20):
    create(i)
    data = []

def create(item):
    data.append(item)

def read():
    return data

def update(index, value):
    data[index] = value

def delete(index):
    data.pop(index)

for i in range(20):
    create(i)
```

Q: File handling in Python.

```
with open("file.txt", "w") as f:
    f.write("Hello")
```

```
with open("file.txt", "r") as f:
    print(f.read())
with open("file.txt", "w") as f:
    f.write("Hello")
```

```
with open("file.txt", "r") as f:
    print(f.read())
with open("file.txt", "w") as f:
    f.write("Hello")
```

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with open("file.txt", "r") as f:
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```
with open("file.txt", "r") as f:
    print(f.read())
```

Q: API example in Python.

Q: *Linked List in Python.*

```
self.data = data
self.next = None
class Node:
def __init__(self, data):
self.data = data
self.next = None
```

Q: What is Python?

Q: What is OOP?

Q: *What is a loop?*

Q: What is a function?

Functions are reusable blocks of code.

Q: What is an array?

Arrays store multiple values.

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