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In [9]: import string
import secrets

def generate_password(length):
    characters = string.ascii_letters + string.digits + string.punctuation
    while True:
        password = ''.join(secrets.choice(characters) for i in range(length))
        if (any(c.islower() for c in password)
            and any(c.isupper() for c in password)
            and any(c.isdigit() for c in password)
            and any(c in string.punctuation for c in password)):
            return password

password_length = 12
generated_password = generate_password(password_length)
print(f"Generated Password: {generated_password}")
```

Generated Password: e7@RCMAr<SHC

In []: