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**Python tasks**

1. def calculate\_discount(member\_type, bill\_value):

if member\_type == "Premium":

discount = 0.20 \* bill\_value

elif member\_type == "Gold":

discount = 0.15 \* bill\_value

elif member\_type == "Silver":

discount = 0.10 \* bill\_value

else:

discount = 0.05 \* bill\_value if bill\_value > 2000 else 0

return discount

print(calculate\_discount("Gold", 3000)) #450

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2. def mode\_of\_transport(priority, weight, distance):

if priority != "urgent" and weight <= 5:

return "Bike"

elif priority != "urgent" and weight > 5 and distance <= 250:

return "Lorry"

elif priority == "urgent" and distance < 50 and weight < 100:

return "Van"

else:

return "Train"

print(mode\_of\_transport("urgent", 30, 40)) # van

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3. def is\_eligible\_for\_onsite(passport, communication, feedback, experience, age):

if passport and communication == "good" and feedback == "good" and experience >= 2 and age >= 23:

return True

return False

print(is\_eligible\_for\_onsite(True, "good", "good", 3, 25)) # True

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4. def calculate\_electricity\_bill(units):

if units > 1000:

bill = units \* 10

elif units > 500:

bill = units \* 5

elif units > 200:

bill = units \* 2

else:

bill = units \* 1

return bill

print(calculate\_electricity\_bill(1200)) # 12000

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5.def is\_prime(n):

if n <= 1:

return False

for i in range(2, int(n\*\*0.5) + 1):

if n % i == 0:

return False

return True

def display\_primes(x, y):

primes = [i for i in range(x, y+1) if is\_prime(i)]

return primes

print(display\_primes(10, 50)) # [11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47]

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6. def reverse\_number(number):

return int(str(number)[::-1])

print(reverse\_number(12345)) # 54321