

main.py

Untitled7.py

Untitled8.py

Untitled9.py

Untitled10.py

Untitled11.py

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Command Line Arguments

```
1 """
2 Created 2/24/26
3 Adam Kingery
4 Description:
5 Enter a principle amount of a CD and year to maturity of CD. Determine the
6 interest rate based on the amount of the principle and maturity (see below).
7 Calculate first year interest (principle x interest rate). Display principle, interest
8 rate and the interest amount for first year.
9 """
10
11 #Ask user for CD info
12 print("Enter principle amount of CD: ")
13 principle_amount = input()
14 print("Enter years to maturity")
15 years_to_maturity = input()
16
17 #Determine interest rate
18 if int(principle_amount) > 100000 and years_to_maturity == "5":
19     interest_rate = .06
20 else:
21     interest_rate = .02
22 if int(principle_amount) >= 50000 and int(principle_amount) <= 100000 and years_to_maturity == "10":
23     interest_rate = .05
24 if int(principle_amount) >= 50000 and int(principle_amount) <= 100000 and years_to_maturity == "5":
25     interest_rate = .04
26
27 #Calculate first year interest
28 first_year_interest = float(principle_amount) * float(interest_rate)
29
30 #Display results
31 print("Principle amount: ", principle_amount)
32 print("Interest rate: ", interest_rate)
33 print("First year interest: ", first_year_interest)
```

Enter principle amount of CD:  
75000  
Enter years to maturity  
10  
Principle amount: 75000  
Interest rate: 0.05  
First year interest: 3750.0

\*\* Process exited - Return Code: 0 \*\*

Ln: 16, Col: 1