

PC File Edit View Navigate Code Refactor Run Tools VCS Window Help Banking_system - task1.py

Banking_system > short_tasks > task1.py

Project

- Banking_system C:\Users\Abhishek\OneDrive - Madan Mohan Malaviya University of Technology\Desktop\00Ps Python Assignment\Banking_system\short_tasks\task1.py
 - db_connection
 - models
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 - task3.py
 - task4.py
 - task5.py
 - task6.py
 - Banking System.pdf
 - main.py
- External Libraries
- Scratches and Consoles

```
1 def is_eligible_for_loan(credit_score, annual_income):
2     if credit_score > 700 and annual_income > 50000:
3         return True
4     else:
5         return False
6
7 print(is_eligible_for_loan(740, 60000))
8 print(is_eligible_for_loan(720, 40000))
```

Run: task1

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/Banking_system/short_tasks/task1.py"

True
False

Process finished with exit code 0

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PEP 8: W292 no newline at end of file

8:40 CRLF UTF-8 4 spaces Python 3.10

15:04 26-12-2023

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Banking_system - task2.py

task2

task2.py

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task1.py

task2.py

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self.balance = balance

def withdrawal(self, amount):

if amount > self.balance:

print('Amount requested is greater than available balance')

elif not amount % 100 == 0:

print('Amount should be multiple of 100 or 500')

else:

self.balance -= amount

print('Withdrawal Successful')

def deposit(self, amount):

print('Deposit made successfully')

self.balance += amount

def check_balance(self):

print(self.balance)

Account > withdrawal() > else

task2

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/Banking_system/short_tasks/task2.py"

1000

Amount should be multiple of 100 or 500

Deposit made successfully

4000

Process finished with exit code 0

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22:43CRLFUTF-84 spacesPython 3.10

Search

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Banking_system - task3.py

Banking_system > short_tasks > task3.py

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```
1 # Function to calculate future balance
2 def calculate_future_balance(initial_balance, annual_interest_rate, years):
3     future_balance = initial_balance * (1 + annual_interest_rate / 100) ** years
4     return future_balance
5
6
7 # Function to get user input for multiple customers
8 def get_user_input():
9     customers = []
10
11     num_customers = int(input("Enter the number of customers: "))
12
13     for i in range(num_customers):
14         print(f"\nCustomer {i + 1}:")
15
16         get_user_input()
```

Run: task3

Customer 1:
Enter the initial balance: 1000
Enter the annual interest rate (%): 10
Enter the number of years: 5

Customer 2:
Enter the initial balance: 2000
Enter the annual interest rate (%): 5
Enter the number of years: 10

Future Balances:
Customer 1: \$1610.51
Customer 2: \$3257.79

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Banking_system - task4.py

Banking_system > short_tasks > task4.py

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```
1 bank_accounts = {
2     '123456': 1500.50,
3     '789012': 3000.25,
4     '345678': 500.75,
5 }
6
7 # Function to validate the account number
8 def is_valid_account(account_number):
9     return account_number in bank_accounts
10
11 # Function to get user input for account number
12 def get_account_number():
13     while True:
14         account_number = input("Enter your account number: ")
```

Run: task4

C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/Banking_system/short_tasks/task4.py"

Welcome to the Bank!

Enter your account number: 345678

Account Number: 345678

Balance: \$500.75

Do you want to check another account? (yes/no): yes

Enter your account number: 123456

Account Number: 123456

Balance: \$1500.50

Do you want to check another account? (yes/no): no

Thank you for using the Bank. Goodbye!

Process finished with exit code 0

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Banking_system - task5.py

Banking_system > short_tasks > task5.py

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```
12         return False, "Password must contain at least one digit."
13
14     # Password is valid
15     return True, "Password is valid."
16
17
18 print("Welcome to the Bank!")
19
20 while True:
21     user_password = input("Create your password: ")
22     is_valid, message = is_valid_password(user_password)
23
24     if is_valid:
25         print("Password successfully created!")
```

Run: task5

```
C:\pythan310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/Banking_system/short_tasks/task5.py"
Welcome to the Bank!
Create your password: Ram@12345
Password successfully created!

Process finished with exit code 0
```

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Banking_system - task6.py

Banking_system > short_tasks > task6.py

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```
19 except ValueError:
20     print("Invalid amount. Please enter a numeric value.")
21     continue
22
23 if transaction_type.lower() == 'deposit':
24     transaction_history.append(f"Deposit: +${amount:.2f}")
25 elif transaction_type.lower() == 'withdrawal':
26     transaction_history.append(f"Withdrawal: -${amount:.2f}")
27 else:
28     print("Invalid transaction type. Please enter 'deposit', 'withdrawal', or 'exit'.")
29
30 display_transaction_history(transaction_history)
31 print("Thank you for using the Bank. Goodbye!")
```

while True

Run: task6

```
C:\python310\python.exe "C:/Users/Abhishek/OneDrive - Madan Mohan Malaviya University of Technology/Desktop/00Ps Python Assignment/Banking_system/short_tasks/task6.py"
Welcome to the Bank!
Enter transaction type (deposit/withdrawal) or 'exit' to finish: withdwawal
Enter transaction amount: 1000
Invalid transaction type. Please enter 'deposit', 'withdrawal', or 'exit'.
Enter transaction type (deposit/withdrawal) or 'exit' to finish: withdrawal
Enter transaction amount: 100
Enter transaction type (deposit/withdrawal) or 'exit' to finish: deposit
Enter transaction amount: 2000
Enter transaction type (deposit/withdrawal) or 'exit' to finish: exit

Transaction History:
Withdrawal: -$100.00
Deposit: +$2000.00
Thank you for using the Bank. Goodbye!
```

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