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SUBJECT: PPL
ASSIGNMENT NO:-08

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PROGRAM:

```
#include <iostream>
#include <stdexcept>

using namespace std;

class BankAccount {
private:
    double balance;

public:
    BankAccount() : balance(0.0) {}

    void deposit(double amount) {
        if (amount <= 0) {
            throw invalid_argument("Deposit amount must be positive.");
        }
        balance += amount;
        cout << "Deposit successful. New balance: " << balance << endl;
    }

    void withdraw(double amount) {
        if (amount <= 0) {
            throw invalid_argument("Withdrawal amount must be positive.");
        }
        if (amount > balance) {
            throw runtime_error("Insufficient funds. Cannot withdraw.");
        }
        balance -= amount;
        cout << "Withdrawal successful. New balance: " << balance << endl;
    }
}
```

```
double getBalance() const {  
    return balance;  
}  
};  
  
int main() {  
    try {  
        BankAccount account;  
  
        double depositAmount, withdrawalAmount;  
  
        cout << "Enter deposit amount: ";  
        cin >> depositAmount;  
        account.deposit(depositAmount);  
  
        cout << "Enter withdrawal amount: ";  
        cin >> withdrawalAmount;  
        account.withdraw(withdrawalAmount);  
  
        cout << "Enter withdrawal amount: ";  
        cin >> withdrawalAmount;  
        account.withdraw(withdrawalAmount);  
    } catch (const exception& e) {  
        cerr << "Error: " << e.what() << endl;  
    }  
  
    return 0;  
}
```

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OUTPUT:

```
PS D:\B. Tech\PPL\Assignment8> cd "d:\B. Tech
Enter deposit amount: 1000
Deposit successful. New balance: 1000
Enter withdrawal amount: 1000
Withdrawal successful. New balance: 0
Enter withdrawal amount: 1000
Error: Insufficient funds. Cannot withdraw.
PS D:\B. Tech\PPL\Assignment8> cd "d:\B. Tech
PS D:\B. Tech\PPL\Assignment8> cd "d:\B. Tech
Enter deposit amount: 1000
Deposit successful. New balance: 1000
Enter withdrawal amount: 1100
Error: Insufficient funds. Cannot withdraw.
PS D:\B. Tech\PPL\Assignment8> █
```