**Roll# 153188**

**Analyze the diagram above and do the following tasks:**

a) Explain about relationships in the above use case

b) Does this use case model require any modifications?

c) Write decriptive use case for withdrawal use case

d) Draw activity diagram of the Withdraw use case.

1. **Explain about relationships in the above use case**

**Ans:**

Three types of relationships are present in this diagram .

These relationships are Generalization, Include and Extend.

**Generalization:**

In this relationship child use case inherits the meaning and behavious of parent use case.

In this diagram Transaction use case is Parent use case. Use cases withdrawl ,deposit ,transfer and inquiry are child use cases . These use cases are inheriting the meaning and behavior of parent use case .

Child use cases are also specializing parent use case.

**Include:**

Base use case explicitly incorporates the behavior of another use case.

Include use case never stands online.There is tight coupling.

In this diagram Session is base case including Transaction use case.

**Extend:**

In this diagram Invalid PIN is base case and Transaction use case is extending its behavior. Invalid Pin use case may stand alone.

1. **Write decriptive use case for withdrawal use case**

**Ans:**

Withdrawal use case asks the customer to select the type of account from available options from menu. Choose a amount to withdraw from menu.

System shall verify it has sufficient money in account to complete the request.(if not customer is informed and asked to enter a different amount).

When transaction is approved by the bank, amount will be withdraw from machine.

1. **Draw activity diagram of the Withdraw use case.**

**Ans:**