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| **Name: Mir Monjur Morshed** | **Id: 19-40913-2** | **Sec: M** | **Time: 1 Hour** |

**Write the following classes:**

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| --- |
| **FixedAccount** |
| int tenureYear |
| FixedAccount ( )  void setTenureYear(int tenureYear)  int getTenureYear( ) |

|  |
| --- |
| **Account** |
| String accountNumber  String accountHolderName  double balance |
| Account( )  void setAccountNumber(String accountNumber)  void setAccountHolderName(String accountHolderName)  void setBalance(double balance)  String getAccountNumber( )  String getAccountHolderName( )  double getBalance( )  void depositMoney(double amount)  void withdrawMoney(double amount) |

|  |
| --- |
| **SavingsAccount** |
| double interestRate |
| SavingsAccount( )  void setInterestRate(double interestRate)  double getInterestRate( ) |

|  |
| --- |
| **Start** |
| Write the main method inside the Start class. Inside the main method create one object of ***FixedAccount*** and one object of ***SavingsAccount***. Demonstrate all the methods. |

***Submission Guideline:***

1. Fill up the necessary information at the beginning of the file.
2. Copy and Paste all the codes in this file.
3. Save the file.
4. Rename the file as per your ID. For example, if your id is 12-21219-2, you have to rename the file as LT4\_12-21219-2.docx.
5. Upload the file in Teams.

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import java.lang.\*;

public class Account

{

private String accountNumber;

private String accountHolderName;

private double balance;

Account()

{

System.out.println("Empty Constructor Account........");

}

public void setAccountNumber(String accountNumber)

{

this.accountNumber=accountNumber;

}

public void setAccountHolderName(String accountHolderName)

{

this.accountHolderName=accountHolderName;

}

public void setBalance(double balance)

{

this.balance=balance;

}

public String getAccountNumber()

{

return accountNumber;

}

public String getAccountHolderName()

{

return accountHolderName;

}

public double getBalance()

{

return balance;

}

public void depositeMoney(double amount)

{

System.out.println("Deposite money: "+amount);

}

public void withdrawMoney(double amount)

{

System.out.println("Withdraw money: "+amount);

}

}

import java.lang.\*;

public class FixedAccount extends Account

{

private int tenureYear;

FixedAccount()

{

System.out.println("Empy constructor Fixed Account.......");

}

public void setTenureYear(int tenureYear)

{

this.tenureYear=tenureYear;

}

public int getTenureYear()

{

return tenureYear;

}

}

import java.lang.\*;

public class SavingsAccount extends Account

{

private double interestRate;

SavingsAccount()

{

System.out.println("Empty Constructor Saving Account.....");

}

public void setInterestRate(double interestRate)

{

this.interestRate=interestRate;

}

public double getInterestRate()

{

return interestRate;

}

}

import java.lang.\*;

public class Start

{

public static void main(String []args)

{

FixedAccount f = new FixedAccount();

f.setAccountNumber("A1938I0HT09");

f.setAccountHolderName("Mir Monjur Morshed");

f.setBalance(50000);

f.setTenureYear(2030);

System.out.println("Account Number: "+f.getAccountNumber());

System.out.println("Account Holder Name: "+f.getAccountHolderName());

System.out.println("Account Balance: "+f.getBalance());

f.depositeMoney(100000.00);

f.withdrawMoney(2225.00);

System.out.println("Tenure Year: "+f.getTenureYear());

System.out.println(" ");

SavingsAccount s = new SavingsAccount();

s.setAccountNumber("A1938I0HT09");

s.setAccountHolderName("Mir Monjur Morshed");

s.setBalance(50000);

s.setInterestRate(15);

System.out.println("Account Number: "+s.getAccountNumber());

System.out.println("Account Holder Name: "+s.getAccountHolderName());

System.out.println("Account Balance: "+s.getBalance());

s.depositeMoney(100.00);

s.withdrawMoney(200.00);

System.out.println("Ineterest Rate: "+s.getInterestRate());

}

}