Assignment # 04

Name : KASHAN MALIK
Contact No: 0311 0206125

Source Code

Main.dart

```dart
import 'bankAccount.dart';
import 'student.dart';
void main() {
  //Bank Account
  BankAccount bankAccount1 = BankAccount(234657, 24000, "Current",
2.3);
  bankAccount1.deposite(1000);
  bankAccount1.withDraw(26000);
  bankAccount1.addInterest();
  bankAccount1.display();
  BankAccount bankAccount2 = BankAccount(125436, 21000, "Saving",
2.4);
    bankAccount2.deposite(1000);
  bankAccount2.withDraw(20000);
  bankAccount2.addInterest();
  bankAccount2.display();

//Student
Student student1 = Student("Kashan", 2345, ["MATHS", "PHYSICS",
"ENGLISH"]);
student1.addCourse("COMPUTER");
student1.dropCourse("MATHS");
student1.displayCourses();

Student student2 = Student("Malik", 6857, ["APP DEV", "AI
CHATBOT"]);
student2.addCourse("WEB DEV");
student2.dropCourse("AI CHATBOT");
```

```
student2.displayCourses();
}
```

Student.dart

```dart
class Student{
  String name;
  int id;
  List <String> courses;
  Student(
    this.name,
    this.id,
    this.courses,
  );
  void addCourse(String course){
  courses = courses + [course];
  }
    void dropCourse(String course){
   courses.remove(course);
  }
  void displayCourses(){
    print("Name: ${name}");
    print("ID: ${id}");
    print("Courses: ${courses}");
  }
}
```

bankAccount.dar

```dart
class BankAccount{
  int accountNumber;
  double balance;
  String accountType;
  double interestRate;
 BankAccount(
  this.accountNumber,
```

```dart
    this.balance,
    this.accountType,
    this.interestRate,
   );
 void deposite (int amount){
  balance = balance + amount;
  print("You are deposite an amount ${amount} and now your total
balance is ${balance}");
 }
  void withDraw (int amount){
    if(balance >= amount){
  balance = balance - amount;
  print("You are withdraw an amount ${amount} and now your total
balance is ${balance}");
  }
  else{
    print("Insufficient funds. Withdrawal unsuccessful.");
  }
 }
 void addInterest(){
   var interestAmount = balance * (interestRate / 100);
    balance = balance + interestAmount;
       print("You are added interest of ${interestAmount}. Now
your New balance is ${balance}");
 }
void display(){
  print("Account Number: ${accountNumber}");
  print("Balance: ${balance}");
  print("Account Type: ${accountType}");
  print("Interest Rate: ${interestRate}");
}
}
```