

Day -1

Task 1:

```
import java.util.Scanner;
public class Main
{

static void checkLeap(int year)
{
if (year % 4 == 0 )
{
System.out.println(year + " is a leap
year"); } else
{
System.out.println(year + " is not a leap
year"); }
}

public static void main(String[] args)
{
Scanner in=new Scanner(System.in);
{
```

```
System.out.print("enter the number:");  
}
```

```
int year = in.nextInt();
```

```
checkLeap(year);
```

```
}
```

```
}
```

output:

enter the number:2004

2004 is a leap year

Task 2:

```
public class Main
```

```
{
```

```
public static void main(String[] args)
```

```
{
```

```
System.out.println("Even numbers from 1 to  
100:"); for (int i = 1; i <= 100; i++)
```

```
{
```

```
if (i % 2 == 0)
```

```
{
```

```
System.out.println(i + " ");  
}  
}  
}  
}
```

Day-2

Task 1:

```
import java.util.Scanner;  
public class Main  
{  
    public static void main(String[] args)  
    {  
        Scanner sc= new Scanner(System.in);  
        System.out.println("enter the size of the array");  
        int n= sc.nextInt();  
        int[] arr = new int[n];  
        for(int i=0;i<n;i++)  
        {  
            System.out.print("enter the  
value:"); arr[i]=sc.nextInt();  
        }  
    }  
}
```

```
for(int i=n-1;i>=0;i--)  
{  
System.out.println(arr[i]);  
}  
}  
}
```

Task 2:

```
class Main {  
public static void main(String[] args)  
{  
String str = "Hello everyone";  
String vowels = "";
```

```
String consonants = "";
```

```
for (int i = 0; i < str.length(); i++)  
{  
char ch = str.charAt(i);
```

```
if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')  
{  
vowels += ch;  
}
```

```
else
{
consonants += ch;
}
}

System.out.println("Vowels: " + vowels);
System.out.println("Consonants: " +
consonants); }
}

output: Vowels: eoeene
Consonants: Hillary
```

Task 3:

REVERSE THE STRING

```
public class Main
{
public static void main(String[] args)
{
String str1 = " I LOVE
ZOHO"; String
str[]=str1.split(" ");
for( int i=str.length-1;i>0;i--)
```

```
{  
  
System.out.print(str[i]+ "  
"); }  
  
}  
}
```

Output:

ZOHO LOVE I

Day-3

Task-1

1. BankAccount

```
package oops;  
public class BankAccount {  
    private double balance;  
    public BankAccount(double initialBalance) {  
        this.balance = initialBalance;  
    }  
    public void deposit(double amount) {  
        balance += amount;  
        System.out.println("Deposited: " + amount);  
    }  
}
```

```

}
public void withdraw(double amount) {
    if (balance >= amount) {
        balance -= amount;
        System.out.println("Withdrawn: " + amount);
    } else {
        System.out.println("Insufficient balance");
    }
}

public double getBalance() {
    return balance;
}

public static void main(String[] args) {
    BankAccount account = new BankAccount(2000);
    account.deposit(600);
    account.withdraw(300);
    System.out.println("Current balance: " + account.getBalance()); }
}

```

output

Deposited: 600.0

Withdrawn: 300.0

Current balance: 2300.0

Task-2

2. Example.java

```
package oops;

public class Example {

    public int sum(int a, int b) {
        return a + b;
    }

    public double sum(double a, double b) {
        return a + b;
    }

    public static void main(String[] args) {
        Example example = new Example();
        System.out.println("Sum of integers: " + example.sum(10, 20));
        System.out.println("Sum of doubles: " + example.sum(10.5,
20.7));
    }
}
```

output

Sum of integers: 30

Sum of doubles: 31.2

Sum of integers: 30

Sum of doubles: 31.2

Task-3

3. StudentManagementSystem

```
package oops;
import java.util.Scanner;
class Student {
String name;
int marks;
public Student(String name) {
this.name = name;
}
public void assignMarks(int marks) {
this.marks = marks;
}
public void displayResults() {
System.out.println("Name: " + name);
System.out.println("Marks: " + marks);
if (marks >= 60) {
System.out.println("Result: Pass");
} else {

System.out.println("Result: Fail");
}
}
}
```

```
public class StudentManagementSystem {  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
        System.out.print("Enter student name: ");  
        String name = scanner.nextLine();  
        Student student = new Student(name);  
        System.out.print("Enter marks: "); int  
        marks = scanner.nextInt();  
        student.assignMarks(marks);  
        student.displayResults();  
    }  
}
```

output

Enter student name: sri

Enter marks: 90

Name: sri

Marks: 90

Result: Pass

Task-4

4. Employee

```
package oops;
```

```
class Person {
```

```
    String name;
```

```
int age;
public Person(String name, int age) {
    this.name = name;
    this.age = age;
}
}
class Employee extends Person {
    double salary;

    int hoursWorked;
    double hourlyRate;
    public Employee(String name, int age, double hourlyRate) {
        super(name, age);
        this.hourlyRate = hourlyRate;
    }
    public void calculateSalary(int hoursWorked) {
        this.hoursWorked = hoursWorked;
        salary = hoursWorked * hourlyRate;
        System.out.println("Salary: " + salary);
    }
    public static void main(String[] args) {
        Employee employee = new Employee("John", 30, 20.0);
        employee.calculateSalary(40);
    }
}
```

}

output

Salary: 800.0

Day -7

Task-1

```
mysql> use mysql;
```

Database changed

```
mysql> CREATE TABLE Student (
```

```
->  student_id INT PRIMARY KEY,
```

```
->  first_name VARCHAR(50),
```

```
->  last_name VARCHAR(50),
```

```
->  date_of_birth DATE,
```

```
->  email VARCHAR(100) UNIQUE
```

```
-> );
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> CREATE TABLE Course (
```

```
->  course_id INT PRIMARY KEY,
```

```
->  course_name VARCHAR(100),
```

```
->  course_code VARCHAR(20) UNIQUE,
```

```
->  credits INT
```

```
-> );
```

Query OK, 0 rows affected (0.01 sec)

Task-2

```
mysql> INSERT INTO Student (student_id, first_name, last_name,
date_of_birth, email) VALUES
```

```
-> (1, 'Alice', 'Johnson', '2002-04-15', 'alice.johnson@example.com'),
```

```
-> (2, 'Bob', 'Smith', '2001-11-20', 'bob.smith@example.com'),
```

```
-> (3, 'Charlie', 'Lee', '2003-01-05', 'charlie.lee@example.com'),
```

```
-> (4, 'Diana', 'Garcia', '2000-07-12', 'diana.garcia@example.com'),
```

```
-> (5, 'Ethan', 'Kumar', '2002-09-30', 'ethan.kumar@example.com');
```

```
Query OK, 5 rows affected (0.01 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> desc Student;
```

Field	Type	Null	Key	Default	Extra
student_id	int(11)	NO	PRI	NULL	
first_name	varchar(50)	YES		NULL	
last_name	varchar(50)	YES		NULL	
date_of_birth	date	YES		NULL	
email	varchar(100)	YES	UNI	NULL	

```
5 rows in set (0.01 sec)
```

```
mysql> select * from Student;
```

student_id	first_name	last_name	date_of_birth	email
------------	------------	-----------	---------------	-------

1	Alice	Johnson	2002-04-15	alice.johnson@example.com
2	Bob	Smith	2001-11-20	bob.smith@example.com
3	Charlie	Lee	2003-01-05	charlie.lee@example.com
4	Diana	Garcia	2000-07-12	diana.garcia@example.com
5	Ethan	Kumar	2002-09-30	ethan.kumar@example.com

+-----+-----+-----+-----+-----+

5 rows in set (0.00 sec)

```
mysql> INSERT INTO Course (course_id, course_name, course_code,
credits) VALUES
```

```
-> (01, 'cs', 'cs1', 2),
```

```
-> (02, 'ct', 'ct1', 2),
```

```
-> (03, 'it', 'it1', 2),
```

```
-> (04, 'cs', 'cs3', 2);
```

Query OK, 4 rows affected (0.00 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> select * from Course;
```

+-----+-----+-----+-----+

course_id	course_name	course_code	credits
-----------	-------------	-------------	---------

+-----+-----+-----+-----+

1	cs	cs1	2
---	----	-----	---

2	ct	ct1	2
---	----	-----	---

3	it	it1	2
---	----	-----	---

4	cs	cs3	2
---	----	-----	---

+-----+-----+-----+-----+

4 rows in set (0.00 sec)

```
mysql> INSERT INTO Course (course_id, course_name, course_code,
credits) VALUES
```

```
-> (05, 'ct', 'ct2', 2);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> select * from Course;
```

course_id	course_name	course_code	credits
1	cs	cs1	2
2	ct	ct1	2
3	it	it1	2
4	cs	cs3	2
5	ct	ct2	2

5 rows in set (0.00 sec)

```
mysql> ALTER TABLE Course
```

```
-> ADD fee DECIMAL(10, 2);
```

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> select * from Course;
```

```

+-----+-----+-----+-----+-----+
| course_id | course_name | course_code | credits | fee |
+-----+-----+-----+-----+-----+
| 1 | cs | cs1 | 2 | NULL |
| 2 | ct | ct1 | 2 | NULL |
| 3 | it | it1 | 2 | NULL |
| 4 | cs | cs3 | 2 | NULL |
| 5 | ct | ct2 | 2 | NULL |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

Task-3

```

mysql> UPDATE Course
    -> SET fee = 1200.00
    -> WHERE course_code = 'CS101';
Query OK, 0 rows affected (0.01 sec)
Rows matched: 0  Changed: 0  Warnings: 0

```

```

mysql> select * from Course;
+-----+-----+-----+-----+-----+
| course_id | course_name | course_code | credits | fee |
+-----+-----+-----+-----+-----+
| 1 | cs | cs1 | 2 | NULL |
| 2 | ct | ct1 | 2 | NULL |
| 3 | it | it1 | 2 | NULL |
| 4 | cs | cs3 | 2 | NULL |
| 5 | ct | ct2 | 2 | NULL |

```



```
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> UPDATE Course
```

```
-> SET fee = 1200.00
```

```
-> WHERE course_code = 'cs1';
```

```
Query OK, 1 row affected (0.00 sec)
```

```
Rows matched: 1  Changed: 1  Warnings: 0
```

Task-4

```
mysql> select * from Course;
```

```
+-----+-----+-----+-----+-----+
| course_id | course_name | course_code | credits | fee   |
+-----+-----+-----+-----+-----+
| 1 | cs   | cs1   | 2 | 1200.00 |
| 2 | ct   | ct1   | 2 | NULL   |
| 3 | it   | it1   | 2 | NULL   |
| 4 | cs   | cs3   | 2 | NULL   |
| 5 | ct   | ct2   | 2 | NULL   |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> UPDATE Course
```

```
-> SET fee = 1300.00
```

```
-> WHERE course_code = 'ct1';
```

```
Query OK, 1 row affected (0.00 sec)
```

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE Course
```

```
-> SET fee = 1100.00
```

```
-> WHERE course_code = 'it1';
```

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE Course
```

```
-> SET fee = 1400.00
```

```
-> WHERE course_code = 'cs3';
```

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE Course
```

```
-> SET fee = 1100.00
```

```
-> WHERE course_code = 'ct2';
```

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select * from Course;
```

+	+	+	+	+	+
	course_id		course_name		course_code
	credits		fee		
+	+	+	+	+	+
	1		cs		cs1
	2		1200.00		

	2	ct	ct1		2	1300.00	
	3	it	it1		2	1100.00	
	4	cs	cs3		2	1400.00	
	5	ct	ct2		2	1100.00	
+-----+-----+-----+-----+-----+							

5 rows in set (0.00 sec)