

**ATSS’s**

**Institute of Industrial and Computer Management and Research, Nigdi Pune**

**MCA Department Academic Year : 2022-23**

Practical Journal on

**IT11L- Java Programming (SEM-I)**

**Submitted By:**

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Roll no : 52

**Date :**



# ATSS’s

**Institute of Industrial and Computer Management and Research, Nigdi Pune**

**MCA Department**

**INDEX**

# Students Name :Tanaya Sanjay Aswale Roll No. : 52

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Program Title** | **Cou rse Outc ome** | **Page No.** | **Teacher’s Sign with Date** | **Remarks** |
| **1.** | Print the pattern:  5  10 15 20  25 30 35 40 45  50 55 60  65 | **CO5** | **6** |  |  |
| **2.** | Design an interface AdvancedArithmetic which contains a method signature int divisor\_sum(int n). You need to write a class called MyCalculator which implements the interface. divisor\_sum(int n) function takes an integer as input and return the sum of all its divisors.  Divisors of 6 are 1, 2, 3 and 6, so divisor\_sum should return 12.(0<n<100) | **CO5** | **8** |  |  |
| **3.** | Create an Interface 'Animals' with abstract method 'void sound()' and default method „void walk()‟. Implement abstract method in class 'Cat'  & 'Dog'. Now create an object for each of the subclasses and call their respective methods and default method too. | **CO5** | **9** |  |  |
| **4.** | Declare the integer array with 10 numbers. Generate 2 new arrays Prime and NonPrime with prime and non-prime numbers from mainarray. | **CO5** | **10** |  |  |
| **5.** | Write an application to identify and move all 0's to the end of an array.Maintain the sequence of the other (non-zero) array elements. | **CO5** | **11** |  |  |
| **6.** | Write an application which will throw OverwtProductException ifProduct weight is above 60kg. (Use User defined exception) | **CO5** | **13** |  |  |
| **7.** | Given two arrays, 1,2,3,4,5 and 2,3,1,1,0,5,0,2,1 find which number isnot present in the second array. | **CO5** | **15** |  |  |
| **8.** | Write code to check whether a no is a power of two or not? | **CO5** | **16** |  |  |
| **9.** | Write a code to display string in reverse order of words | **CO5** | **17** |  |  |
| **10.** | Write a code to accept a string and check if there are two sameconsecutive letters, delete one of them. | **CO5** | **18** |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **11.** | Write a threaded application to print in one text area 1,2,3,4 and in  other textarea 2,4,9,16 ... | **CO2** | **19** |  |  |
| **12.** | Write a code to create calculator application using AWT, which willcalculate simple Arithmetic operations. | **CO2** | **20** |  |  |
| **13.** | Write a Menu Driven Program for Blood Donor application for following task a. Insert blood donor details into database. b. Display blood group-wise details of donors c. Update the address of a specificdonor. d. Delete the record of donors whose age is below 18. | **CO3** | **22** |  |  |
| **14.** | Write a servlet to check username & password passed from html page. If it is “Scott” & “tiger”, display welcome message else show the same html page again. [With res.sendRedirect  (“http://localhost:8080/login.html”)] | **CO3** | **26** |  |  |
| **15.** | Write a program to draw a circle on panel and move the circle asmouse is moving. | **CO2** | **29** |  |  |
| **16.** | Write a servlet to add a Cookie to clients machine that storesusername, current date & time. Display the same. | **CO3** | **31** |  |  |
| **17.** | Write java program to generate 10 terms of Fibonacci series usingthreads. | **CO2** | **34** |  |  |
| **18.** | Create a menu driven program for Bank account(acc\_no, Name, amt)(Hint: use vector)  1. Add 2. Search 3. Delete 4. Display | **CO1** | **35** |  |  |
| **19.** | Write a program to store employee in TreeSet and make sureemployees are stored in sorted order of their age. | **CO1** | **39** |  |  |
| **20.** | Create the list of patients and display the names of patients starting with „A‟ | **CO1** | **41** |  |  |

pg. 3

pg. 4

## Q.1. Print the pattern:

**5**

## 10 15 20

**25 30 35 40 45**

## 50 55 60

**65**

Ans:

public class pattern7 {

public static void main(String[] args) {

int num = 5;

for(int i = 1; i<3; i++){ for(int j = i; j<=3; j++){ System.out.print(" ");

}

for(int j = 1; j<=i; j++){ System.out.print(" "+num+" "); num+=5;

}

for(int j = 1; j<i; j++){ System.out.print(" "+num+" "); num+=5;

}

System.out.println();

}

for(int i = 1; i<=3; i++){ for(int j = 1; j<=i; j++){ System.out.print(" ");

}

for(int j = i; j<=3; j++){

pg. 5

System.out.print(" "+num+" "); num+=5;

}

for(int j = i; j<3; j++){ System.out.print(" "+num+" "); num+=5;

}

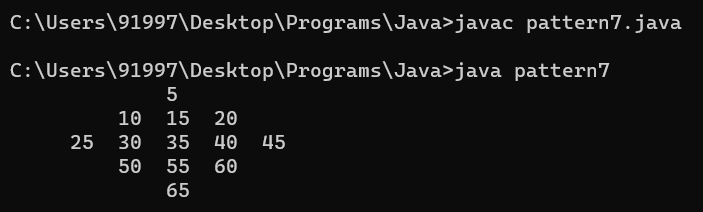
System.out.println();

}

}

}

Output:



pg. 6

## Design an interface AdvancedArithmetic which contains a method signature int diviser sumint n). You need to write a class called MyCalculator which implements the interface. divisor sum(int n) function takes an integer as input and return the sum of all its divisors. Divisors of are 1, 2, 3 and 6, so divisor tum should return 12. (0<n<100)

Ans:

import java.util.\*;

interface advancedArithmetic{ int divisorSum(int n);

}

class MyCalculator implements advancedArithmetic{ public int divisorSum(int n){

int sum = 0;

for(int i = 1; i<=n; i++){ if(n%i==0){

sum+=i;

}

}

return sum;

}

}

public class interface8 {

public static void main(String[] args) { System.out.println("Please enter the number:"); Scanner S= new Scanner(System.in);

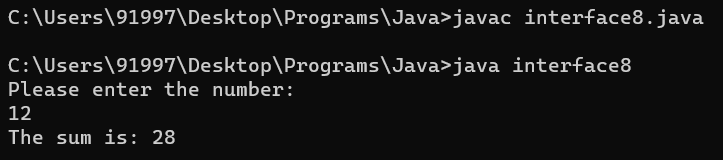
int n= S.nextInt();

MyCalculator sum = new MyCalculator(); System.out.println("The sum is: "+sum.divisorSum(n));

}

}

Output:



pg. 7

## Create an Interface 'Animals' with abstract method void sound and default method 'void walk. Implement abstract method in class 'Cat & Dog. Now create an object for each of the subclasses and call their respective methods and default method too.

Ans:

interface Animal{ void sound(); default void walk(){

System.out.println("walking...");

}

}

class Cat implements Animal{ public void sound(){

System.out.println("cat does meeoo meeeooo...");

}

}

class Dog implements Animal{ public void sound(){

System.out.println("dog dose bhoo bhooo...");

}

}

public class implements10 {

public static void main(String[] args) { Cat c = new Cat();

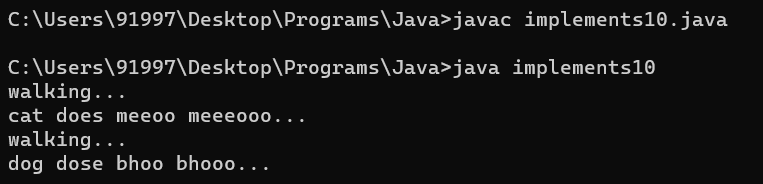
Dog d = new Dog(); c.walk(); c.sound();

d.walk(); d.sound();

}

}

Output:



pg. 8

## Declare the integer array with 10 numbers, Generate 2 new arrays Prime and NonPrime with prime and non- prime numbers from main array.

Ans:

import java.util.ArrayList; public class primeArray11{

public static void main(String[] args) {

int nums[] = {7,24,51,4,57,87,92,10,17,63};

ArrayList<Integer> prime = new ArrayList<Integer>(); ArrayList<Integer> notPrime = new ArrayList<Integer>(); for(int n:nums){

if(prime(n)){

prime.add(n);

}else{ notPrime.add(n);

}

}

System.out.println("Prime numbers: "+prime); System.out.println("Non Prime numbers: "+notPrime);

}

static boolean prime(int n){ if(n==1) return false; for(int i = 2; i<n; i++){ if(n%i==0){

return false;

}

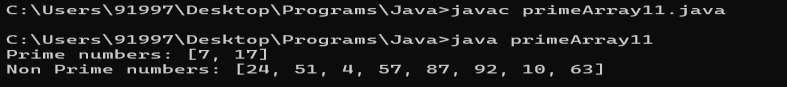
}

return true;

}

}

Output:



pg. 9

## Write an application to identify and move all 0's to the end of an array. Maintain the sequence of the other (non-zero) array elements.

Ans:

import java.time.chrono.IsoEra; import java.util.Scanner;

class Demo

{

public void MoveZeroAtEnd(int Arr[],int Brr[],int isize)

{

int iCnt=0; int j=0;

for(int i=0;i<isize;i++)

{

if(Arr[i]!=0)

{

iCnt++; Brr[j]=Arr[i]; j++;

}

}

for(int i=iCnt;i<isize;i++)

{

Brr[i]=0;

}

}

}

public class moveZeroArray12

{

public static void main(String args[])

{

Scanner sobj=new Scanner(System.in); System.out.println("Enter the size of array"); int size=sobj.nextInt();

pg. 10

int Arr[]=new int[size]; int Brr[]=new int[size];

System.out.println("Enter the elements in array"); for(int i=0;i<size;i++)

{

Arr[i]=sobj.nextInt();

}

Demo dobj=new Demo(); System.out.println("Before Move Zero at end :"); for(int i=0;i<size;i++)

{

System.out.print(Arr[i]+" ");

}

System.out.println(); dobj.MoveZeroAtEnd(Arr,Brr,size); System.out.println("After Move Zero at end :");

for(int i=0;i<size;i++)

{

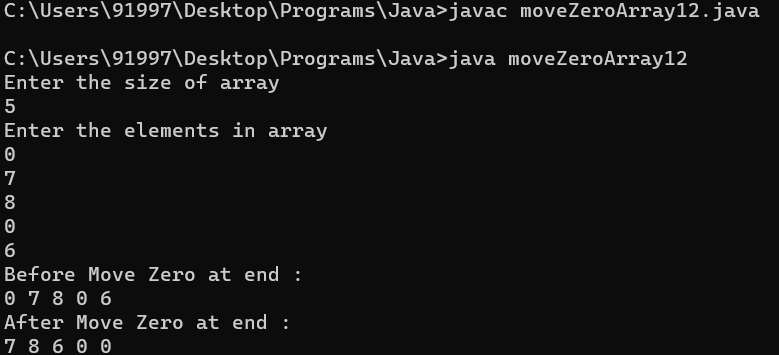
System.out.print(Brr[i]+" ");

}

}

}

Output:



pg. 11

## Write an application which will throw OverweProductException if Product weight is above 60kg. (Use User defined exception)

Ans:

import java.util.Scanner;

class OverProductWeightException extends Exception{ OverProductWeightException(String msg){ super(msg);

}

}

public class userDefinedException15{ public static void main(String[] args) {

System.out.println("Enter the weight of product: "); Scanner S=new Scanner(System.in);

int weight=S.nextInt(); try { checkWeight(weight);

} catch (OverProductWeightException e) { System.out.println("An Exception Occurred: "+e);

}

}

static void checkWeight(int weight) throws OverProductWeightException{ if(weight>60){

throw new OverProductWeightException("Sorry..! Product weight can not be more than 60kgs.");

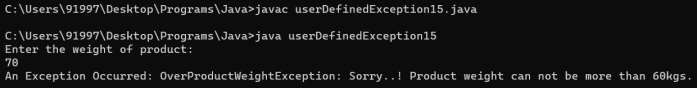
}

System.out.println("Product weight is okk.");

}

}

Output:



pg. 12

## Given two arrays, 1,2,3,4,5 and 2.3.1.1,0.5.0.2.1 find which number is not present in the second array. Ans:

import java.util.ArrayList;

class arrayFind17 {

public static void main(String[] args) { int arr1[] = {1,2,3,4,5};

int arr2[] = {2,3,1,1,0,5,0,2,1};

ArrayList<Integer> notInSecondArray = new ArrayList<Integer>(); int count = 0;

for(int i:arr1){

for(int j = 0; j<arr2.length; j++){ if(i==arr2[j]){

count++;

}

}

if(count==0){ notInSecondArray.add(i);

}

count = 0;

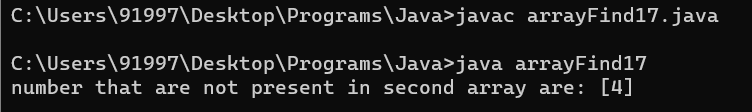
}

System.out.println("number that are not present in second array are: "+notInSecondArray);

}

}

Output:



pg. 13

## Write code to check whether a no is a power of two or not?

Ans:

public class checkPower18 {

public static void main(String[] args) { int n = 64;

if(divide(n)){

System.out.println(n+" is power of 2");

}else{

System.out.println(n+" is not power of 2");

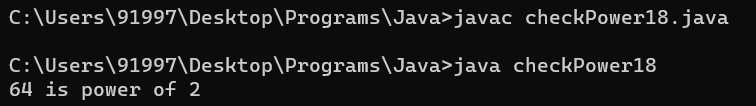
}

}

static boolean divide(int n){ if(n==1) return true; if(n%2!=0) return false; return divide(n/2);

} }

Output:



pg. 14

## Write a code to display string in reverse order of words.

Ans:

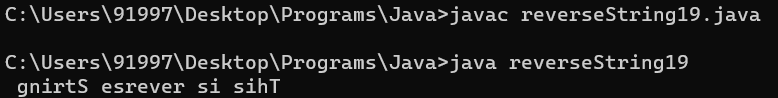
public class reverseString19 {

public static void main(String[] args) { String s = "This is reverse String "; for(int i =s.length()-1; i>=0; i--){ System.out.print(s.charAt(i));

}

} }

Output:



pg. 15

## Write a code to accept a string and check if there are two same consecutive letters, delete one of them.

Ans:

public class lastOne20 {

public static void main(String[] args) { String str = "Hello iim Pratikk.";

System.out.println(removeDuplicateChar(str));

}

public static String removeDuplicateChar(String str){ if(str.length()==1) return str;

if(str.charAt(0)==str.charAt(1)){

return removeDuplicateChar(str.substring(1));

}else{

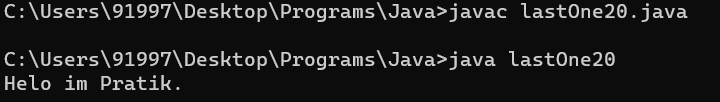
return str.charAt(0) + removeDuplicateChar(str.substring(1));

}

}

}

Output:



pg. 16

## Q11. Write a threaded application to print in one text area 1,2,3,4... and in other text area

import java.awt.\*; import javax.swing.\*;

public class ThreadedApp extends JFrame {

// two text areas to display the sequences of numbers JTextArea ta1 = new JTextArea();

JTextArea ta2 = new JTextArea();

ThreadedApp() {

// set the layout of the frame setLayout(new GridLayout(1, 2));

// add text areas to the frame add(ta1);

add(ta2);

// create and start the first thread

Thread t1 = new Thread(new Runnable() { public void run() {

for (int i = 1; i <= 10; i++) { ta1.append(i + "\n");

try { Thread.sleep(1000);

} catch (Exception e) {

}

}

}

});

t1.start();

// create and start the second thread Thread t2 = new Thread(new Runnable() { public void run() {

pg. 17

for (int i = 1; i <= 10; i++) { ta2.append(i \* i + "\n"); try { Thread.sleep(1000);

} catch (Exception e) {

}

}

}

});

t2.start();

}

public static void main(String[] args) {

// create the frame

ThreadedApp app = new ThreadedApp();

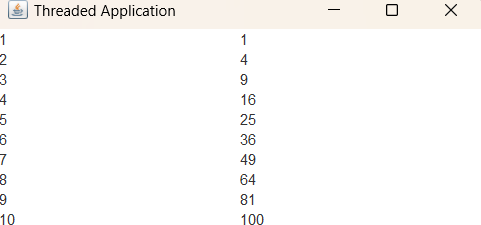
// set the properties of the frame app.setSize(400, 300); app.setTitle("Threaded Application");

app.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE); app.setVisible(true);

}

}

Output:



pg. 18

## Q12. a code to create calculator application using AWT, which will calculate simple Arithmetic operations

import java.awt.\*; import javax.swing.\*;

public class ThreadedApp extends JFrame {

// two text areas to display the sequences of numbers JTextArea ta1 = new JTextArea();

JTextArea ta2 = new JTextArea(); ThreadedApp() {

// set the layout of the frame setLayout(new GridLayout(1, 2));

// add text areas to the frame add(ta1);

add(ta2);

// create and start the first thread

Thread t1 = new Thread(new Runnable() { public void run() {

for (int i = 1; i <= 10; i++) { ta1.append(i + "\n");

try { Thread.sleep(1000);

} catch (Exception e) {

}

}

}

});

t1.start();

// create and start the second thread Thread t2 = new Thread(new Runnable() { public void run() {

for (int i = 1; i <= 10; i++) { ta2.append(i \* i + "\n"); try { Thread.sleep(1000);

pg. 19

} catch (Exception e) {

}

}

}

});

t2.start();

}

public static void main(String[] args) {

// create the frame

ThreadedApp app = new ThreadedApp();

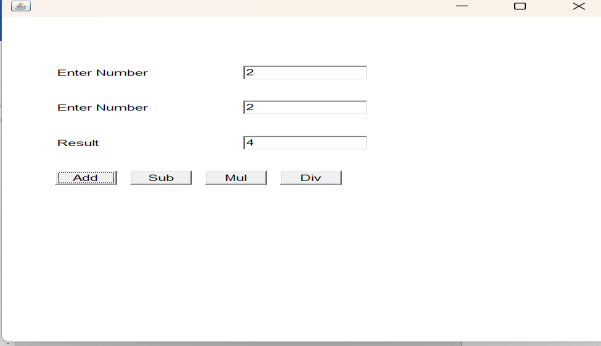
// set the properties of the frame app.setSize(400, 300); app.setTitle("Threaded Application");

app.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE); app.setVisible(true);

}

}

Output:



pg. 20

## Q13. Create a menu driven program for Bank account(acc\_no, Name, amt) (Hint: use vector)

1. Add 2. Search 3. Delete 4. Display import java.util.Scanner;

import java.util.Vector; class BankAccount { private int accNo; private String name; private int amt;

public BankAccount(int accNo, String name, int amt) { this.accNo = accNo;

this.name = name; this.amt = amt;

}

public int getAccNo() { return accNo;

}

public String getName() { return name;

}

public int getAmt() { return amt;

}

@Override

public String toString() {

return "BankAccount [accNo=" + accNo + ", name=" + name + ", amt=" + amt + "]";

}

}

public class q3 {

private static Vector<BankAccount> accounts = new Vector<>(); private static Scanner sc = new Scanner(System.in);

public static void main(String[] args) { int choice;

do {

pg. 21

System.out.println("1. Add Account"); System.out.println("2. Search Account"); System.out.println("3. Delete Account"); System.out.println("4. Display Accounts"); System.out.println("5. Exit"); System.out.print("Enter your choice: "); choice = sc.nextInt();

switch (choice) { case 1:

addAccount(); break;

case 2:

searchAccount(); break;

case 3:

deleteAccount(); break;

case 4:

displayAccounts(); break;

case 5: System.out.println("Goodbye!"); break;

default:

System.out.println("Invalid choice. Please try again.");

}

} while (choice != 5);

}

private static void addAccount() { System.out.print("Enter account number: "); int accNo = sc.nextInt(); System.out.print("Enter name: ");

pg. 22

String name = sc.next(); System.out.print("Enter amount: "); int amt = sc.nextInt();

accounts.add(new BankAccount(accNo, name, amt)); System.out.println("Account added successfully!");

}

private static void searchAccount() { System.out.print("Enter account number to search: "); int accNo = sc.nextInt();

for (BankAccount account : accounts) { if (account.getAccNo() == accNo) { System.out.println(account);

return;

}

}

System.out.println("Account not found.");

}

private static void deleteAccount() { System.out.print("Enter account number to delete: "); int accNo = sc.nextInt();

for (BankAccount account : accounts) { if (account.getAccNo() == accNo) { accounts.remove(account);

System.out.println("Account deleted successfully."); return;

}

}

}

private static void displayAccounts() { System.out.println("Accounts:");

for (BankAccount account : accounts) {

pg. 23

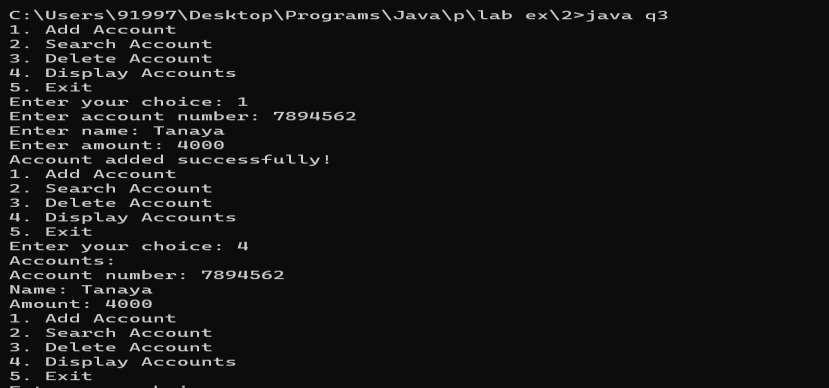
System.out.println("Account number: " + account.getAccNo()); System.out.println("Name: " + account.getName()); System.out.println("Amount: " + account.getAmt());

}

}

}

Output:



pg. 24

## Q14. Write a servlet to check username & password passed from html page. If it is “Scott”& “tiger”,

display welcome message else show the same html page again.

## Scoot & tiger

Login.html

<!DOCTYPE html>

<html>

<head>

<title>Loginhtml</title>

<form action="http://localhost:8087/examples/servlets/servlet/LoginServlet" method="post">

<h2>Enter your username:</h2>

<input type="text" name="username">

<br>

<h2>Enter your Password:</h2>

<input type="text" name="password">

<br><br>

<input type="submit" value="Submit">

</form>

</body>

</html> LoginServlet.java

import jakarta.servlet.ServletException; import jakarta.servlet.annotation.WebServlet; import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest; import jakarta.servlet.http.HttpServletResponse; import java.io.IOException;

public class LoginServlet extends HttpServlet { @Override

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

String username = request.getParameter("username"); String password = request.getParameter("password");

pg. 25

if (username.equals("Scott") && password.equals("tiger")) { response.getWriter().write("WELCOME " + username + "!");

} else {

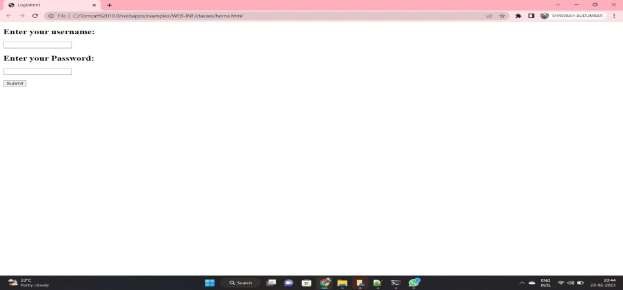
response.sendRedirect(“login.html");

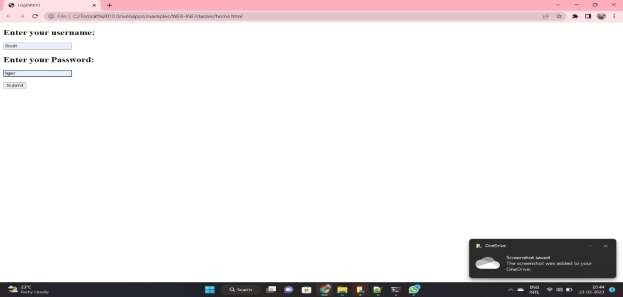
}

}

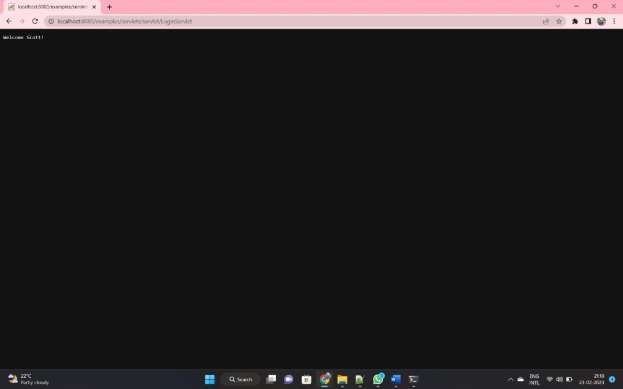
}

Output:





pg. 26



pg. 27

## Q15. Write a program to draw a circle on panel and move the circle as mouse is moving.

import java.awt.\*; import java.awt.event.\*; import javax.swing.\*;

public class MovingCircle extends JFrame implements MouseMotionListener { int x, y;

MovingCircle() {

// add mouse motion listener to the frame addMouseMotionListener(this);

// set the size of the frame setSize(400, 400);

// set the title of the frame setTitle("Moving Circle");

// set the default close operation of the frame setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

// set the visibility of the frame setVisible(true);

}

public void paint(Graphics g) { super.paint(g); g.setColor(Color.RED); g.fillOval(x, y, 50, 50);

}

public void mouseDragged(MouseEvent e) {

}

public void mouseMoved(MouseEvent e) {

// get the x and y position of the mouse x = e.getX();

y = e.getY();

// repaint the frame

pg. 28

repaint();

}

public static void main(String[] args) {

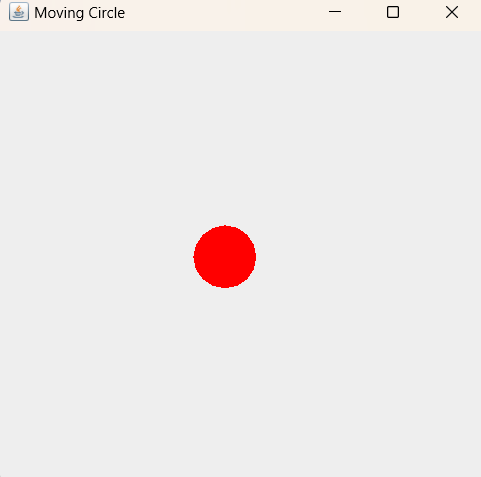
// create the frame

MovingCircle mc = new MovingCircle();

}

}

Output:



pg. 29

# Q.16 Write a servlet to add a Cookie to clients machine that stores username, current date& time.

Display the same. **Cookie** Cookie.html

<html>

<body>

<h2>Enter your username:</h2>

<form action="CookieServlet" method="get">

<input type="text" name="username">

<input type="submit" value="Submit">

</form>

</body>

</html>

CookieServlet.java import java.io.\*; import java.util.\*; import javax.servlet.\*;

import javax.servlet.http.\*;

public class CookieServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

response.setContentType("text/html");

// Get the user's username from the request parameters String username = request.getParameter("username");

pg. 30

// Create a new cookie with the username, current date and time Date now = new Date();

String cookieValue = username + "|" + now.toString();

Cookie userCookie = new Cookie("userCookie", cookieValue);

// Set the cookie to expire in 24 hours userCookie.setMaxAge(24 \* 60 \* 60);

// Add the cookie to the response response.addCookie(userCookie);

// Display the username, current date and time to the user PrintWriter out = response.getWriter(); out.println("<html><body>");

out.println("<h2>Cookie Set</h2>"); out.println("<p>Username: " + username + "</p>");

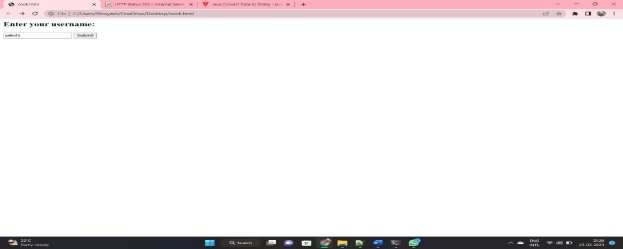
out.println("<p>Current Date and Time: " + now.toString() + "</p>"); out.println("</body></html>");

}

}

pg. 31

Output:



pg. 32

## Q17.Write java program to generate 10 terms of Fibonacci series using threads

class FibonacciThread extends Thread { private int n;

public FibonacciThread(int n) { this.n = n;

}

@Override

public void run() { long a = 0, b = 1, c;

System.out.print("Fibonacci series of " + n + " terms using threads: "); for (int i = 1; i <= n; i++) {

System.out.print(a + " "); c = a + b;

a = b; b = c;

}

System.out.println();

}

}

public class q4 {

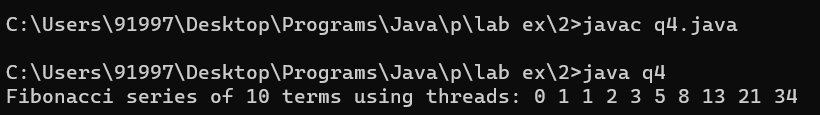
public static void main(String[] args) { int n = 10;

FibonacciThread fibonacciThread = new FibonacciThread(n); fibonacciThread.start();

}

}

Output:



pg. 33

## Q18. Create a menu driven program for Bank account(acc\_no, Name, amt) (Hint: use vector)

1. Add 2. Search 3. Delete 4. Display import java.util.Scanner;

import java.util.Vector; class BankAccount { private int accNo; private String name; private int amt;

public BankAccount(int accNo, String name, int amt) { this.accNo = accNo;

this.name = name; this.amt = amt;

}

public int getAccNo() { return accNo;

}

public String getName() { return name;

}

public int getAmt() { return amt;

}

@Override

public String toString() {

return "BankAccount [accNo=" + accNo + ", name=" + name + ", amt=" + amt + "]";

}

}

public class q3 {

private static Vector<BankAccount> accounts = new Vector<>(); private static Scanner sc = new Scanner(System.in);

public static void main(String[] args) { int choice;

do {

pg. 34

System.out.println("1. Add Account"); System.out.println("2. Search Account"); System.out.println("3. Delete Account"); System.out.println("4. Display Accounts"); System.out.println("5. Exit"); System.out.print("Enter your choice: "); choice = sc.nextInt();

switch (choice) { case 1:

addAccount(); break;

case 2:

searchAccount(); break;

case 3:

deleteAccount(); break;

case 4:

displayAccounts(); break;

case 5: System.out.println("Goodbye!"); break;

default:

System.out.println("Invalid choice. Please try again.");

}

} while (choice != 5);

}

private static void addAccount() { System.out.print("Enter account number: "); int accNo = sc.nextInt(); System.out.print("Enter name: ");

pg. 35

String name = sc.next(); System.out.print("Enter amount: "); int amt = sc.nextInt();

accounts.add(new BankAccount(accNo, name, amt)); System.out.println("Account added successfully!");

}

private static void searchAccount() { System.out.print("Enter account number to search: "); int accNo = sc.nextInt();

for (BankAccount account : accounts) { if (account.getAccNo() == accNo) { System.out.println(account);

return;

}

}

System.out.println("Account not found.");

}

private static void deleteAccount() { System.out.print("Enter account number to delete: "); int accNo = sc.nextInt();

for (BankAccount account : accounts) { if (account.getAccNo() == accNo) { accounts.remove(account);

System.out.println("Account deleted successfully."); return;

}

}

}

private static void displayAccounts() { System.out.println("Accounts:");

for (BankAccount account : accounts) {

pg. 36

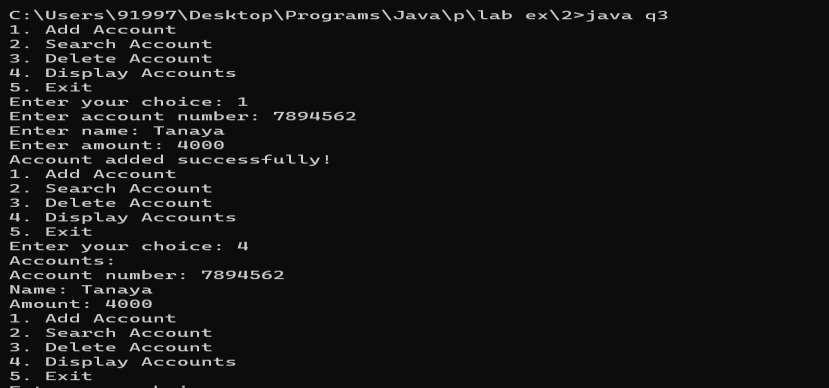
System.out.println("Account number: " + account.getAccNo()); System.out.println("Name: " + account.getName()); System.out.println("Amount: " + account.getAmt());

}

}

}

Output:



pg. 37

## Q19. Write a program to store employee in TreeSet and make sure employees are stored in sorted order of their age.

import java.util.TreeSet;

class Employee implements Comparable<Employee> { private int age;

private String name;

public Employee(int age, String name) { this.age = age;

this.name = name;

}

public int getAge() { return age;

}

public String getName() { return name;

}

@Override

public int compareTo(Employee o) { return this.age - o.age;

}

@Override

public String toString() {

return "Employee [age=" + age + ", name=" + name + "]";

}

}

public class q1 {

public static void main(String[] args) { TreeSet<Employee> employees = new TreeSet<>();

pg. 38

employees.add(new Employee(45, "Jeevan")); employees.add(new Employee(35, "Rohan")); employees.add(new Employee(30, "Baban"));

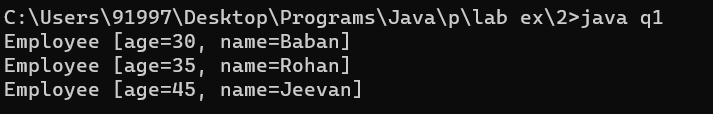
for (Employee employee : employees) { System.out.println(employee);

}

}

}

Output:



pg. 39

## Q.20 . Create the list of patients and display the names of patients starting with 'A’

import java.util.ArrayList; import java.util.List;

class Patient {

private String name;

public Patient(String name) { this.name = name;

}

public String getName() { return name;

}

}

public class q2 {

public static void main(String[] args) { List<Patient> patients = new ArrayList<>(); patients.add(new Patient("Aman")); patients.add(new Patient("Baban")); patients.add(new Patient("Chinki")); patients.add(new Patient("Amin"));

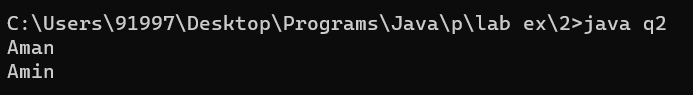
for (Patient patient : patients) {

if (patient.getName().startsWith("A")) { System.out.println(patient.getName());

}

} }}

Output:



pg. 40