DAY 2 – Assignment

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1. Java Program: Are you above 18 years old?
package day_2;
import java.util.Scanner;
public class EligibleAge {
public static void main(String[] args) {
 Scanner input = new Scanner(System.in);
 System.out.print("Please enter your age: ");
 int age = input.nextInt();
 if (age > 18) {
        System.out.println("You are eligible to vote.");
     } else {
        System.out.println("You are not eligible to vote
yet.");
        }
 input.close();
  }
}
Output:
Please enter your age: 22
You are eligible to vote.
2. Java Program: Print Multiplication Table Using for Loop
package day_2;
import java.util.Scanner;
public class MultiplicationTable {
public static void main(String[] args) {
  Scanner input = new Scanner(System.in);
  System.out.print("Enter a number to print its multiplication table: ");
  int number = input.nextInt();
```

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for (int i = 1; i <= 10; i++) {
        int result = number * i;
        System.out.println(number + " x " + i + " = " + result);
     }
  input.close();
}
}
Output:
Enter a number to print its multiplication table: 5
Multiplication table for 5:
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 \times 8 = 40
5 \times 9 = 45
5 x 10 = 50
3. Java Program: Character, String, and Boolean Input
Example
package day_2;
import java.util.Scanner;
public class UserInputSummary {
public static void main(String[] args) {
 // TODO Auto-generated method stub
      Scanner scanner = new Scanner(System.in);
```

System.out.println("Multiplication table for " + number + ":");

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System.out.print("Enter a single character: ");
     char character = scanner.next().charAt(0);
     System.out.print("Enter your name: ");
     String name = scanner.next();
     System.out.print("Do you like programming? (true/false): ");
     boolean likesProgramming = scanner.nextBoolean();
     System.out.println("\n--- User Input Summary ---");
     System.out.println("Character entered: " + character);
     System.out.println("Name entered: " + name);
     System.out.println("Likes programming: " + likesProgramming);
     if (likesProgramming) {
       System.out.println("Great! Keep coding, " + name + "!");
     } else {
       System.out.println("No worries! Programming isn't for everyone.");
     }
     scanner.close();
   }
}
Output:
Enter a single character: s
Enter your name: sudha
Do you like programming? (true/false): true--- User Input Summary --
Character entered: s
Name entered: sudha
Likes programming: true
Great! Keep coding, sudha!
4. Simple Banking Operations using switch Case
package day_2;
import java.util.Scanner;
public class SimpleBanking {
public static void main(String[] args) {
```

```
Scanner scanner = new Scanner(System.in);
    int balance = 0;
    int choice;
    System.out.println("Welcome to ABC Bank");
    while (true) {
      System.out.println("\n1. Check Balance");
      System.out.println("2. Deposit Money");
      System.out.println("3. Withdraw Money");
      System.out.println("4. Exit");
      System.out.print("Enter your choice: ");
      choice = scanner.nextInt();
      switch (choice) {
        case 1:
           System.out.println("Your current balance is: " + balance);
           break;
        case 2:
₹
           System.out.print("Enter amount to deposit: ");
           int deposit = scanner.nextInt();
           if (deposit > 0) {
             balance += deposit;
             System.out.println("Deposit successful!");
           } else {
             System.out.println("Invalid deposit amount.");
           }
           break;
        case 3:
           System.out.print("Enter amount to withdraw: ");
           int withdraw = scanner.nextInt();
           if (withdraw > 0 && withdraw <= balance) {
             balance -= withdraw;
```

```
System.out.println("Withdrawal successful!");
           } else if (withdraw > balance) {
             System.out.println("Insufficient balance.");
           } else {
             System.out.println("Invalid withdrawal amount.");
           }
           break;
         case 4:
           System.out.println("Thank you for using ABC Bank!");
           scanner.close();
           return;
         default:
           System.out.println("Invalid choice. Please try again.");
           }
    }
}
}
Output:
Welcome to ABC Bank
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice: 1
Your current balance is: 0
1. Check Balance
2. Deposit Money
3. Withdraw Money
4. Exit
Enter your choice: 2
₹
```

Enter amount to deposit: 200 Deposit successful! 1. Check Balance 2. Deposit Money 3. Withdraw Money 4. Exit Enter your choice: 2000 Invalid choice! Please try again. 1. Check Balance 2. Deposit Money 3. Withdraw Money 4. Exit Enter your choice: 3 Enter amount to withdraw: 200 Withdrawal successful! 1. Check Balance 2. Deposit Money 3. Withdraw Money 4. Exit Enter your choice: 3 Enter amount to withdraw: 5000 Insufficient balance! 1. Check Balance 2. Deposit Money 3. Withdraw Money 4. Exit Enter your choice: 5.Task: Create a program that accepts age, height, and weight of a person and prints them with appropriate data types. package day_2; import java.util.Scanner;

```
public class PrimitiveData {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.print("Enter Age: ");
int age = scanner.nextInt();
System.out.print("Enter Height: ");
float height = scanner.nextFloat();
System.out.print("Enter Weight: ");
double weight = scanner.nextDouble();
System.out.println("\nAge: " + age);
System.out.println("Height: " + height);
System.out.println("Weight: " + weight);
scanner.close();
}
}
Output:
Enter Age: 22
Enter Height: 4.5
Enter Weight: 45
Age: 22
Height: 4.5
Weight: 45.0
6.Task: Declare and initialize different types of variables to store a student's
information: ID, name, marks, and grade. Print them.
package day_2;
public class StudentInfoVaria {
public static void main(String[] args) {
int id = 101;
String name = "Sudha";
double marks = 98.8;
char grade = 'A';
```

```
System.out.println("Student ID: " + id);
System.out.println("Name: " + name);
System.out.println("Marks: " + marks);
System.out.println("Grade: " + grade);
}
}
Output:
Student ID: 101
Name: Sudha
Marks: 98.8
Grade: A
7.Task: Accept two numbers and perform arithmetic, relational, and logical
operations on them
package day_2;
import java.util.Scanner;
public class Operators {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.print("Enter number1: ");
int num1 = sc.nextInt();
System.out.print("Enter number2: ");
int num2 = sc.nextInt();
System.out.println("Addition: " + (num1 + num2));
System.out.println("Greater number: " + (num1 > num2 ? num1 : num2));
System.out.println("Are both positive?" + (num1 > 0 && num2 > 0));
sc.close();
}
}
Output:
Enter number1: 20
Enter number2: 10
```

```
Addition: 30
Greater number: 20
Are both positive? true
8.Task: Create a greeting message using first name and last name entered by the
user.
package day_2;
import java.util.Scanner;
public class Message {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.print("Enter First Name: ");
String firstName = sc.nextLine();
System.out.print("Enter Last Name: ");
String lastName = sc.nextLine();
String welcomeMessage = "Hello" + firstName + " " + lastName + "!";
System.out.println(welcomeMessage);
sc.close();
}
}
Output:
Enter First Name: Raga
Enter Last Name: Sudha
Hello Raga Sudha!
9.Task: Accept a sentence and reverse it using StringBuilder
package day_2;
import java.util.Scanner;
public class StringBuilderExample {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.print("Enter a sentence: ");
String input = sc.nextLine();
```

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StringBuilder sb = new StringBuilder(input);
System.out.println("Reversed: " + sb.reverse());
sc.close();
}
}
Output:
Enter a sentence: Hello Namaskaram
Reversed: maraksamaN olleH
10.Task: Count how many times a specific character appears in a string.
package day_2;
import java.util.Scanner;
public class CharacterCount {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.print("Enter a string: ");
String str = sc.next();
System.out.print("Enter character to count: ");
char ch = sc.next().charAt(0);
long count = str.chars().filter(c -> c == ch).count();
System.out.println("Character "" + ch + "" appears " + count + " times.");
sc.close();
}
}
Output:
Enter a string: sudha
Enter character to count: s
Character 's' appears 1 times.
11.Task: Display the current date and format it as DD-MMYYYY.
package day_2;
import java.text.SimpleDateFormat;
import java.util.Date;
```

```
public class CurrentDate {
public static void main(String[] args) {
Date date = new Date();
SimpleDateFormat sdf = new SimpleDateFormat("dd-MM-yyyy");
System.out.println("Current Date: " + sdf.format(date));
}
}
Output:
Current Date: 24-07-2025
12.Task: Based on a number entered, print whether it's positive, negative, or
zero.
package day_2;
import java.util.Scanner;
public class NumberCheck {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.print("Enter a number: ");
int number = sc.nextInt();
if (number > 0) System.out.println("The number is positive.");
else if (number < 0) System.out.println("The number is negative.");
else System.out.println("The number is zero.");
sc.close();
}
}
Output:
Enter a number: 69
The number is positive.
13.Task: Accept marks and display the grade using if-else.
package day_2;
import java.util.Scanner;
public class Grade {
```

```
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.print("Enter marks: ");
int marks = sc.nextInt();
if (marks >= 90) System.out.println("Grade: A");
else if (marks >= 75) System.out.println("Grade: B");
else if (marks >= 60) System.out.println("Grade: C");
else System.out.println("Grade: D");
sc.close();
}
}
Output:
Enter marks: 69
Grade: C
14.Task: Build a simple calculator using switch to perform operations (+, -,
*,/).
package day_2;
import java.util.Scanner;
public class Arithmetic {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.print("Enter number1: ");
double num1 = sc.nextDouble();
System.out.print("Enter number2: ");
double num2 = sc.nextDouble();
System.out.print("Enter operation (+, -, *, /): ");
char op = sc.next().charAt(0);
switch (op) {
case '+': System.out.println("Result: " + (num1 + num2)); break;
case '-': System.out.println("Result: " + (num1 - num2)); break;
case '*': System.out.println("Result: " + (num1 * num2)); break;
```

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case '/': System.out.println("Result: " + (num2 != 0 ? (num1 / num2) :
"Cannot divide by zero")); break;
default: System.out.println("Invalid operation");
}
sc.close();
}
}
Output:
Enter number1: 20
Enter number2: 10
Enter operation (+, -, *, /): +
Result: 30.0
15.Task: Print the first N even numbers using a loop
package day_2;
import java.util.Scanner;
public class EvenLoop {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.print("Enter N: ");
int n = sc.nextInt();
for (int i = 0; i < n * 2; i += 2) {
System.out.print(i + " ");
}
sc.close();
}
}
Output:
Enter N: 10
0 2 4 6 8 10 12 14 16 18
16.Task: Accept 5 numbers, store them in an array, and display their average.
package day_2;
```

```
import java.util.Scanner;
public class Array_Ave {
public static void main(String[] args) {
 Scanner sc = new Scanner(System.in);
    int[] arr = new int[5];
    int sum = 0;
    System.out.println("Enter 5 numbers:");
    for (int i = 0; i < 5; i++) {
      arr[i] = sc.nextInt();
      sum += arr[i];
    }
    System.out.println("Average: " + (sum / 5.0));
    sc.close();
}
}
Output:
Enter 5 numbers:
2
4
5
6
7
Average: 4.8
17.Task: Create an enum for days of the week. Print a message depending on the
day.
package day_2;
enum WeekDay {
```

```
MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY,
 SATURDAY, SUNDAY
}
public class EnumDay {
 public static void main(String[] args) {
   WeekDay today = WeekDay.SUNDAY;
   switch (today) {
     case MONDAY:
        System.out.println("New week, new goals!");
        break;
     case FRIDAY:
        System.out.println("Weekend is near!");
        break;
     case SUNDAY:
        System.out.println("Time to relax and recharge.");
        break;
      default:
        System.out.println("It's a regular weekday.");
   }
 }
}
Output:
```

Time to relax and recharge.