

Name: AKELLA VENKATA SURYANARAYANA MURTHY **email:** murthyakella2003@gmail.com

1)Task: Create a program that accepts age, height, and weight of a person and prints them with appropriate data types.

Sample Input:

Age: 25

Height: 5.9

Weight: 68.5

Sample Output:

Age: 25

Height: 5.9

Weight: 68.5

A) package Day2java;

import java.util.Scanner;

public class Assignment_1 {

public static void main(String[] args) {

 // **TODO** Auto-generated method stub

 Scanner sc = **new** Scanner(System.*in*);

 System.*out*.print("Age: ");

int age = sc.nextInt();

 System.*out*.print("Height: ");

double height = sc.nextDouble();

 System.*out*.print("weight: ");

float weight = sc.nextFloat();

 System.*out*.println("Age: "+age);

 System.*out*.println("Height: "+height);

 System.*out*.println("weight: "+weight);

 sc.close();

 }

}

2) Task: Declare and initialize different types of variables to store a student's information: ID, name, marks, and grade. Print them.

Sample Input:

ID: 101

Name: Arun

Marks: 89.5

Grade: A

Sample Output:

Student ID: 101

Name: Arun

Marks: 89.5

Grade: A

Ans) package Day2java;

import java.util.Scanner;

public class Assiginment_2 {

public static void main(String[] args) {

Scanner sc = **new** Scanner(System.**in**);

System.**out**.println("ID: ");

int id = sc.nextInt();

System.**out**.println("Name: ");

String name = sc.nextLine();

sc.next();

System.**out**.println("marks: ");

double marks = sc.nextDouble();

System.**out**.println("Grade: ");

char grade = sc.next().charAt(0);

System.**out**.println("ID: "+id);

System.**out**.println("Name: "+name);

System.**out**.println("marks: "+marks);

System.**out**.println("Grade: "+grade);

sc.close();

```
    }  
}
```

3) Task: Accept two numbers and perform arithmetic, relational, and logical operations on them.

Sample Input:

Number1: 10

Number2: 20

Sample Output:

Addition: 30

Greater number: 20 Are both positive? True

A)package Day2java;

public class Assignment_3 {

public static void main(String[] args) {

 // **TODO** Auto-generated method stub

int num1=10,num2=15;

 System.**out**.println("Addition: "+(num1+num2));

if(num1>num2)

 {

 System.**out**.println("Greater number: "+num1);

 }

if(num1<num2)

 {

 System.**out**.println("Greater number: "+num2);

 }

 System.**out**.println("Are both positive ?"+((num1>0)&&(num2>0)));

 }

```
}
```

4) String Concatenation Task: Create a greeting message using first name and last name entered by the user.

Sample Input:

First Name: Ravi

Last Name: Kumar

Output

Hello, Ravi Kumar! Welcome to the system.

A) package Day2java;

```
public class Assignment_4 {  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        String first = "Murthy";  
        String last = "Akella";  
        String result = "Hello, "+first+" "+last+"! "+" "+"Welcome to the system.";  
        System.out.println(result);  
    }  
}
```

5) Task: Accept a sentence and reverse it using StringBuilder.

Sample Input:

Input: Hello Java Learners

A)

Sample Output:

Reversed: srenraeL avaJ olleH

package Day2java;

```
public class Assignment_5 {  
    public static void main(String[] args) {
```

```

        // TODO Auto-generated method stub

        StringBuilder sb = new StringBuilder("Hello! java learners");

        sb.reverse();

        System.out.println("Reversed string: "+sb.toString());

    }

}

```

6) Task: Count how many times a specific character appears in a string.

Sample Input:

Sample Output: Character 'a' appears 3 times.

String: banana

Character: a

A)

package Day2java;

public class Assignment_6 {

public static void main(String[] args) {

 // **TODO** Auto-generated method stub

 String name = "banana";

char ch = 'a';

int count=0;

for(**int** i=0;i<name.length();i++)

 {

if(name.charAt(i)==ch)

 {

 count++;

 }

 }

 System.**out**.println("number of occurances of a character: "+count);

```
}  
}
```

7) Task: Display the current date and format it as DD-MM-YYYY. Also, show a formatted currency value.

Sample Input:

Date: [current system date]

Amount: 12345.678

Sample Output:

Current Date: 20-07-2025

Formatted Amount: ₹12,345.68

Ans)

```
package assignmentsjava2;
```

```
import java.time.LocalDate;
```

```
import java.time.format.DateTimeFormatter;
```

```
import java.text.NumberFormat;
```

```
import java.util.Locale;
```

```
public class task7 {
```

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

```
        LocalDate currentDate = LocalDate.now();
```

```
        DateTimeFormatter formatter = DateTimeFormatter.ofPattern("dd-MM-yyyy");
```

```
        String formattedDate = currentDate.format(formatter);
```

```
        double amount = 12345.678;
```

```
        NumberFormat currencyFormatter = NumberFormat.getCurrencyInstance(new
```

```
        Locale ("en", "IN"));
```

```
        String formattedAmount = currencyFormatter.format(amount);
```

```
        System.out.println("Current Date: " + formattedDate);
```

```
        System.out.println("Formatted Amount: " + formattedAmount);
```

```
    }
```

```
}
```

8) Task: Based on a number entered, print whether it's positive, negative, or zero.

Sample Input:

Number: -5:

Ans)

Sample Output

The number is negative.

```
package Day2java;
```

```
import java.util.Scanner;
```

```
public class Assignment_8 {
```

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

```
        // TODO Auto-generated method stub
```

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.println("Number: ");
```

```
        int num = sc.nextInt();
```

```
        if(num>0)
```

```
        {
```

```
            System.out.println("It is positive number");
```

```
        }
```

```
        if(num<0)
```

```
            System.out.println("It is negative number");
```

```
        else
```

```
            System.out.println("It is zero");
```

```
        sc.close();
```

```
    }
```

```
}
```

9) Task: Accept marks and display the grade using if-else.

Sample Input:

Sample Output:

Marks: 76

Grade: B

Ans)

```
package Day2java;

import java.util.Scanner;

public class Assignment_9 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Marks: ");

        int marks = sc.nextInt();

        if(marks>=90)
        {

            System.out.println("Grade A+");

        }

        else if(marks>=80&&marks<90)
        {

            System.out.println("Grade A");

        }

        else if(marks>=70&&marks<80)
        {

            System.out.println("Grade B");

        }

        else if(marks>=60&&marks<70)
        {

            System.out.println("Grade C");

        }

    }

}
```



```

        else if(marks>=50&&marks<60)
        {
            System.out.println("Grade D");
        }
        else if(marks>=40&&marks<50)
        {
            System.out.println("Grade E");
        }
        else
        {
            System.out.println("Fail");
        }
        sc.close();
    }
}

```

10) Task: Build a simple calculator using switch to perform operations (+, -, *, /).

Sample Input:

Number1: 10

Number2: 5

Operation: *

A)

Sample Output:

Result: 50

```
package Day2java;
```

```
import java.util.Scanner;
```

```
public class Assignment_10 {
```

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

```
        // TODO Auto-generated method stub
```

```
Scanner sc = new Scanner(System.in);

System.out.print(" number 1: ");

int num1 = sc.nextInt();

System.out.print(" number 2: ");

int num2 = sc.nextInt();

System.out.print(" operator: ");

char ch = sc.next().charAt(0);

switch(ch)

{   case '+':

        System.out.println("Addition: "+(num1+num2));

        break;

    case '-':

        System.out.println("subtraction: "+(num1-num2));

        break;

    case '*':

        System.out.println("multiplication: "+(num1*num2));

        break;

    case '/':

        System.out.println("division: "+(num1/num2));

        break;

    case '%':

        System.out.println("modulo division: "+(num1%num2));

        break;

    default:

        System.out.println("invalid operator");

        break;
```

```

    }
    sc.close();
}
}

```

11) Task: Print the first N even numbers using a loop.

Sample Input:

N = 5

Sample Output:

0 2 4 6 8

A) **package** Day2java;

import java.util.Scanner;

public class Assignment_11 {

public static void main(String[] args) {

 Scanner sc = **new** Scanner(System.**in**);

 System.**out**.print("number: ");

int num = sc.nextInt();

 System.**out**.print("the even numbers are: ");

int i=0;

 //System.out.print(i+" ");

while(num>0)

 {

 System.**out**.print(i+" ");

 i=i+2;

 num--;

 }

 sc.close();

 }

```
}
```

12) Task: Accept 5 numbers, store them in an array, and display their average.

Sample Input:

Numbers: 10, 20, 30, 40, 50

Sample Output:

Average: 30.0

A)

```
package Day2java;
```

```
public class Assignment_12 {
```

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

```
        // TODO Auto-generated method stub
```

```
        int arr[] = {10,20,30,40,50};
```

```
        int sum=0;
```

```
        double avg = 0;
```

```
        for(int i=0;i<arr.length;i++)
```

```
        {
```

```
            sum = sum+arr[i];
```

```
        }
```

```
        avg = (double)sum/(arr.length);
```

```
        System.out.println("Average of numbers: "+avg);
```

```
    }
```

```
}
```

13) Task: Create an enum for days of the week. Print a message depending on the day.

Sample Input:

Day: MONDAY

Sample Output:

Start of the work week!

Ans) package Day2java;

```
import java.util.Scanner;
```

```
public class Assignment_13 {  
    enum Day {  
        MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY, SATURDAY, SUNDAY  
    }  
  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
  
        System.out.print("Day: ");  
  
        String day = sc.nextLine().toUpperCase();  
  
        Day day = Day.valueOf(input);  
  
        switch (day) {  
            case MONDAY:  
                System.out.println("Start of the work week!");  
                break;  
            case TUESDAY:  
            case WEDNESDAY:  
            case THURSDAY:  
                System.out.println("Midweek days!");  
                break;  
            case FRIDAY:  
                System.out.println("Almost weekend!");  
                break;  
            case SATURDAY:  
            case SUNDAY:  
                System.out.println("Weekend vibes!");  
                break;  
        }  
    }  
}
```

```
}  
}
```

14) Task: Create a student class with fields for name and marks. Create an object and display its data.

Sample Input:

Name: Riya

Marks: 87

Sample Output:

Student Name: Riya

Marks: 87

```
package Day2java;  
  
import java.util.Scanner;  
  
public class StudentInfo {  
    class Student {  
        String name;  
        int marks;  
        Student(String name, int marks) {  
            this.name = name;  
            this.marks = marks;  
        }  
        void display() {  
            System.out.println("Student Name: " + name);  
            System.out.println("Marks: " + marks);  
        }  
    }  
  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        System.out.print("Name: ");  
        String name = sc.nextLine();
```

```

        System.out.print("Marks: ");

        int marks = sc.nextInt();

        Student student = new Student(name, marks);

        student.display();

        sc.close();

    }

}

```

15) Task: Create a class Employee and a subclass Manager that extends Employee and adds department information.

Sample Input:

Name: Raj

Salary: 50000

Department: Sales

A) **package** Day2java;

import java.util.Scanner;

```

class Employee {

    String name;

    int salary;

    Employee (String name, int salary) {

        this.name = name;

        this. Salary = salary;

    }

    void display() {

        System.out.println("Name: " + name);

        System.out.println("Salary: " + salary);

    }

}

```

Sample Output:

Name: Raj

Salary: 50000

Department: Sales

```

}

class Manager extends Employee {
    String department;

    Manager (String name, int salary, String department) {
        super (name, salary);
        this.department = department;
    }

    @Override
    void display () {
        super.display();
        System.out.println("Department: " + department);
    }
}

public class Assignment_15 {
    public static void main (String[] args) {
        Scanner sc = new Scanner (System.in);

        System.out.print("Name: ");
        String name = sc .nextLine();

        System.out.print("Salary: ");
        int salary = sc.nextInt();
        sc.nextLine();

        System.out.print("Department: ");
        String department = sc .nextLine();

        Manager manager = new Manager (name, salary, department);
        manager.display();
    } }

```


