**Java Programming Codes**

1. **Welcome Code**

public class Welcome  
{  
 // main is the Declaration of the Main Method inside a class & String args refers to the input argument of parameter inside the main method  
 public static void main(String[] args)  
 {  
 System.out.println("Welcome to Java Programming");  
 }  
}

1. **Ram Drives a car at 150kmph covering a distance of 600km. Using Java Program Calculate the time taken by ram to cover the distance ?**

public class Driving {  
 public static void main(String[] args){  
 int speed = 150;  
 int distance = 600;  
 int time = distance / speed;  
 System.out.println("Distance covered by Ram is : " + time + "hrs");  
 }  
}

1. **Mr. Gunashekar went for a walk on a rectangular garden that had a length of 20cm and a breadth 10cm. Help him to calculate the total distance covered by him during his walk everyday.**

public class Walking {  
 public static void main(String[] args){  
 int length = 20;  
 int breadth = 10;  
 int area = length \* breadth;  
 int perimeter = 2\*(length + breadth);  
  
 System.out.println("Perimeter of the given Garden which gunashekar walked is : " + perimeter);  
 System.out.println("Area of the given Garden which gunashekar walked is : " + area);  
 }  
}

1. **How to take user input Using Scanner Class in Java:**
   1. **Package – import java.util.\*; // Util Stands for utilities & there are many utilities**
   2. **Scanner sc = new Scanner(System.in)**
   3. **Scanner – name of the class , sc means object of the class, System.in means system is taking the input from the user & in is the object**
   4. **int n = sc.nextInt(); // nextInt() is a method**
   5. **float y = sc.nextFloat();**
   6. **double k = sc.nextDouble():**
   7. **string u = sc.next();**
2. **To find a square root of a given number.**

package Day\_2;  
  
import java.util.Scanner;  
  
public class SquareRoot {  
 public static void main(String[] args){  
 Scanner sc = new Scanner(System.in);  
 System.out.print("Enter the number to be squared : ");  
 int n = sc.nextInt();  
  
 int square = n \* n;  
 System.out.println("The Square Root of " + n + " is "+ square);  
 }  
}

1. **Arithmetic operations using Java.**

package Day\_2;  
  
import java.util.Scanner;  
  
public class Operations {  
 public static void main(String[] args){  
 Scanner sc = new Scanner(System.in);  
 System.out.print("Enter the First Number : ");  
 int num1 = sc.nextInt();  
 System.out.print("Enter the Second NUmber : ");  
 int num2 = sc.nextInt();  
  
 int add = num1 + num2;  
 int sub = num1 - num2;  
 float div = (float) num1 / num2;  
 int mul = num1 \* num2;  
 int mod = num1 % num2;  
  
 System.out.println("Addition of " + num1 + " and "+ num2 + " is " + add);  
 System.out.println("Difference of " + num1 + " and "+ num2 + " is " + sub);  
 System.out.println("Multiplication of " + num1 + " and "+ num2 + " is " + mul);  
 System.out.println("Division of " + num1 + " and "+ num2 + " is " + div);  
 System.out.println("Modulus of " + num1 + " and "+ num2 + " is " + mod);  
 }  
}

1. **Arc Length in Java.**

package Day\_2;  
  
import java.util.Scanner;  
  
public class ArcLength {  
 public static void main(String[] args){  
 Scanner sc = new Scanner(System.in);  
 System.out.print("Enter the Radius of the Circle : ");  
 int radius = sc.nextInt();  
 System.out.print("Enter the Center Angle in Radius : ");  
 int angle = sc.nextInt();  
  
 int arc\_length = radius \* angle;  
 System.out.println("Arc Lenght of the Circle is : " + arc\_length + " cms");  
 }  
}

1. **Random Number Generation in Java.**

package Day\_2;  
  
import java.util.Random;  
import java.util.Scanner;  
  
public class RandomNum {  
 public static void main(String[] args){  
 Scanner sc = new Scanner(System.in);  
 System.out.println("Enter the range to get Random Numbers : ");  
 int range = sc.nextInt();  
  
 Random rand = new Random();  
 int random = rand.nextInt(range);  
 System.out.println("Randomly Generated Value in the range of " + range + " is " + random);  
 }  
}

1. **Welcome message with your Name in Java using Scanner Class.**

package Day\_2;  
  
import java.util.Scanner;  
  
public class WelcomingUser {  
 public static void main(String[] args){  
 Scanner sc = new Scanner(System.in);  
 System.out.print("Enter your Name : ");  
 String user = sc.next();  
  
 System.out.println("Hey!! " + user + ", Welcome to the Technical Training Program.");  
 }  
}

1. **Mr M of Ajarbaijan wants to automate his bank details with opening Account balance of 2,00,00**
   1. **Deposit = Rs 1,00,000**
   2. **Funds Transfer to S = Rs 25,000**
   3. **Loan Taken from bank @repaid = Rs 10,000**
   4. **Interest on the kast 5% for 6 months @ SI**
   5. **Withdrawl = Rs 20,000**

package Day\_3;  
  
import java.util.Scanner;  
  
/\*  
Mr M of Ajarbaijan wants to automate his bank details with opening Account balance of 2,00,00  
a. Deposit = Rs 1,00,000  
b. Funds Transfer to S = Rs 25,000  
c. Loan Taken from bank @repaid = Rs 10,000  
d. Interest on the loan 5% for 6 months @ SI  
e. Withdrawal = Rs 20,000  
 \*/  
public class Secanrio\_1 {  
 public static void main(String[] args){  
 Scanner sc = new Scanner(System.in);  
 System.out.print("Enter the Opening Balance :");  
 int Accbal = sc.nextInt();  
 System.out.print("Enter the Deposit Amount :");  
 int deposit = sc.nextInt();  
 int total\_bal = Accbal + deposit;  
  
 System.out.print("Fund Transfer :");  
 int funds = sc.nextInt();  
 total\_bal = total\_bal - funds;  
  
 System.out.print("Enter the Loan Taken :");  
 int loan = sc.nextInt();  
 total\_bal = total\_bal - loan;  
  
 System.out.print("Enter the Rate of interest : ");  
 int rate = sc.nextInt();  
 System.out.print("Enter the Time Period : ");  
 float time = sc.nextFloat();  
  
 float si = (loan \* rate \* time) / 100;  
 float final\_balance = (float) total\_bal - si;  
  
 System.out.print("Enter the Withdrawal : ");  
 int withdrawal = sc.nextInt();  
 final\_balance = final\_balance - withdrawal;  
  
 System.out.println("The Final Amount in His Account will be : " + final\_balance);  
 }  
}

1. **Write a simple program using if to toss a coin for a cricket Match.**

package Day\_3;  
  
import java.util.Objects;  
import java.util.Scanner;  
  
public class Circuit {  
 public static void main(String[] args){  
 Scanner sc = new Scanner(System.in);  
 System.out.print("Enter the User Name : ");  
 String user = sc.next();  
 System.out.print("Enter the Status : ");  
 int status = sc.nextInt();  
 if (Objects.equals(status, 0)){  
 System.out.println("Dear " + user+ " Circuit Status is OFF.");  
 } else if (Objects.equals(status, 1)) {  
 System.out.println("Dear " + user + " Circuit Status is ON.");  
 }  
 else {  
 System.out.println("Code Entered is Incorrect.");  
 }  
 }  
}

1. **Ravi wants to know the circuit status using if else.**

package Day\_3;  
  
import java.util.Objects;  
import java.util.Scanner;  
  
public class Tossing {  
 public static void main(String[] args) {  
 Scanner sc = new Scanner(System.in);  
 System.out.print("Enter the User Name : ");  
 String user = sc.next();  
  
 System.out.print("Enter the Outcome either H or T for Heads & Tails : ");  
 String outcome = sc.next();  
  
  
 if (Objects.equals(outcome, "H")) {  
 System.out.println(user + "'s outcome is Heads.");  
 } else if (Objects.equals(outcome, "T")){  
 System.out.println(user + "'s outcome is Tails.");  
 }  
 else {  
 System.out.println("Wrong Input Please Check Again");  
 }  
 }}

1. **M and N are crossing a traffic signal help them using IF-ELSE to know the signal status.**

package Day\_3;  
  
import java.util.Scanner;  
  
public class Traffic {  
 public static void main(String[] args){  
 Scanner sc = new Scanner(System.in);  
 System.out.print("Enter the Color of the Signal : ");  
 String colour = sc.next();  
  
 colour = colour.toLowerCase();  
  
 switch (colour) {  
 case "red" -> System.out.println("Wait for Some time it's Red Signal.... You are Not Allowed to Cross the Road");  
 case "yellow" -> System.out.println("Hey!! your are requested to get ready for the Move....");  
 case "green" -> System.out.println("Hurray!!! You are Ready to Go for the Ride........");  
 }  
  
  
 }  
}

1. **Identify the Number of Coins in a Chess Board based of the movement of the Coins .**