**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 .**
2. **Mr Kashyap works for a project in a reputed company and is about to deliver the end product to his costumer in a few seconds. He has kept alarm that would beep in couple of seconds that would enable him to contact the costumer and deliver it at right time. How can he code this situation ? Time is 5 Seconds**

package Day\_3;  
  
public class Delivery {  
 public static void main(String[] args){  
 for (int i = 5; i>= 1; --i){  
 System.out.println(i);  
 }  
 System.out.println("Beep");  
 }  
}

1. **Mr Hiranandani is working as a corporate Executive. His basic salary is Rs 20000. Based on the Following data calculate the net salary of** 
   1. **DearNess allowance@15% of the basic**
   2. **HRA @20%**
   3. **Yearly Bonus of Rs 24000**
   4. **PF – 10% Gross**
   5. **Employee State Insurance**