11111111111)))))). Java Else If.

```
import java.util.Scanner;  public class ElseIfProblem {public static void main(String[] args)
{  Scanner scanner = new Scanner(System.in);   int number = scanner.nextInt();   if (number % 2 != 0)
{ System.out.println("Weird");    } else if (number >= 2 && number <= 5) { System.out.println("Not
Weird");   } else if (number >= 6 && number <= 20) {  System.out.println("Weird");    } else
{  System.out.println("Not Weird");   }   }}
```

22222)))))) Java StdIn and Stdout II

```
import java.util.Scanner;  public class StdInAndStdOutII { public static void main(String[] args)
{ Scanner scanner = new Scanner(System.in);  double d = scanner.nextDouble();   int i =
scanner.nextInt();    scanner.nextLine(); // consume newline   String s = scanner.nextLine();
System.out.println("String: " + s);     System.out.println("Integer: " + i);   System.out.println("Double: "
+ d);}}
```

333333))))))3 :Java Loops I

```
import java.util.Scanner;   public class LoopsI {  public static void main(String[] args) {  Scanner
scanner = new Scanner(System.in);    int n = scanner.nextInt();    for (int i = 1; i <= 10; i++)
{  System.out.println(n + " x " + i + " = " + (n * i)) ;   }  }}
```

Program :4. Java Datatypes

```
import java.util.Scanner;    public class DataTypes {public static void main(String[] args) {Scanner
scanner = new Scanner(System.in);    int T = scanner.nextInt();     for (int i = 0; i < T; i++) {    try {   long
x = scanner.nextLong();   System.out.println(x + " can be fitted in:");     if (x >= -128 && x <= 127)
System.out.println("* byte");    if (x >= -32768 && x <= 32767) System.out.println("* short");     if (x >= -
2147483648L && x <= 2147483647L) System.out.println("* int");     System.out.println("* long");    }
catch (Exception e) {System.out.println(scanner.next() + " can't be fitted anywhere.");       }   } }}
```

Program 5 :. Java End of File

```
import java.util.Scanner;    public class EndOfFile {    public static void main(String[] args) { Scanner
scanner = new Scanner(System.in);  int lineNumber = 1;    while (scanner.hasNextLine()) {  String line =
scanner.nextLine();    System.out.println(lineNumber + " " + line);     lineNumber++; }   }}
```

Program 6 :. Java Static Initializer Block

```
import java.util.Scanner;   public class StaticInitializer {static int B;   static int H;     static
boolean flag = true;     static {Scanner scanner = new Scanner(System.in);     B =
scanner.nextInt();          H = scanner.nextInt();     if (B <= 0 || H <= 0) {   flag = false;
System.out.println("java.lang.Exception: Breadth and height must be positive");     } }  public
static void main(String[] args) {   if (flag) {  int area = B * H;     System.out.println(area);    } }}
```

Program 7 : Java Int to String

```
import java.util.Scanner;   public class IntToString {    public static void main(String[] args)
{   Scanner scanner = new Scanner(System.in);     int n = scanner.nextInt();    try {   String s =
Integer.toString(n);    if (n == Integer.parseInt(s)) { System.out.println("Good job");   } else
{System.out.println("Wrong answer");  }     } catch (Exception e)
{     System.out.println("Wrong answer");  }  }}
```

Program 8 : Java Date and Time

```
import java.util.Scanner;   import java.time.LocalDate;   import java.time.DayOfWeek;    public
class DateAndTime { public static void main(String[] args) {  Scanner scanner = new
Scanner(System.in);    int month = scanner.nextInt();      int day = scanner.nextInt();     int year
= scanner.nextInt();     scanner.close();    LocalDate date = LocalDate.of(year, month, day);
DayOfWeek dayOfWeek = date.getDayOfWeek();
System.out.println(dayOfWeek.toString());   }}
```

Program 9 : Java Currency Formatter

```
import java.util.*;    import java.text.*;   public class CurrencyFormatter { public static void
main(String[] args) {.  Scanner scanner = new Scanner(System.in);    double payment =
scanner.nextDouble();    scanner.close();    Locale indiaLocale = new Locale("en", "IN");
System.out.println("US: " +
NumberFormat.getCurrencyInstance(Locale.US).format(payment));
System.out.println("India: " +
NumberFormat.getCurrencyInstance(indiaLocale).format(payment));
System.out.println("China: " +
NumberFormat.getCurrencyInstance(Locale.CHINA).format(payment));
System.out.println("France: " +
NumberFormat.getCurrencyInstance(Locale.FRANCE).format(payment)) }}
```

Program 10 : Java Strings Introduction

```
import java.util.Scanner;  public class StringsIntro {   public static void main(String[] args)
{     Scanner scanner = new Scanner(System.in);   String A = scanner.next();    String B =
scanner.next();    scanner.close();  System.out.println(A.length() + B.length());
System.out.println(A.compareTo(B) > 0 ? "Yes" : "No");  System.out.println(capitalize(A) + " " +
capitalize(B)); }. public static String capitalize(String str) {  return str.substring(0,
1).toUpperCase() + str.substring(1);  }}
```

11. Java String Reverse

```
import java.util.Scanner;   public class StringReverse {   public static void main(String[] args) {   Scanner scanner = new Scanner(System.in);   String s = scanner.next();   scanner.close(); String reversed = new StringBuilder(s).reverse().toString(); System.out.println(s.equals(reversed) ? "Yes" : "No");  }}
```

12. Java String Tokens

```
import java.util.Scanner;    public class StringTokens {   public static void main(String[] args) {    Scanner scanner = new Scanner(System.in);       String s = scanner.nextLine(); scanner.close();    s = s.trim();       if (s.isEmpty()) {       System.out.println(0);    return;  } String[] tokens = s.split("[^A-Za-z]+");    System.out.println(tokens.length);    for (String token : tokens) {       System.out.println(token); } }}
```

Program 13 :. Java Regex

```
import java.util.regex.*;   class IPAddressValidator {    public static void main(String[] args) {     String[] testIPs = {"192.168.0.1", "999.0.0.1", "10.10.10.10", "300.1.1.1"};     String zeroTo255 = "([0-9]{1,2}|(1[0-9]{2})|(2[0-4][0-9])|(25[0-5]))";     String ipRegex = zeroTo255 + "\\." + zeroTo255 + "\\." + zeroTo255 + "\\." + zeroTo255;       Pattern pattern = Pattern.compile(ipRegex);      for (String ip : testIPs) {      Matcher matcher = pattern.matcher(ip);     System.out.println(ip + " is " + (matcher.matches() ? "Valid" : "Invalid"));  }    }}
```

Program 14 : Java Primality Test

```
import java.util.Scanner;    public class PrimalityTest {     public static void main(String[] args) {.    Scanner scanner = new Scanner(System.in);    int number = scanner.nextInt(); scanner.close();     System.out.println(isPrime(number) ? "Prime" : "Not prime");    }    public static boolean isPrime(int n) {    if (n <= 1) return false;    if (n == 2) return true;   if (n % 2 == 0) return false;     for (int i = 3; i <= Math.sqrt(n); i += 2) {       if (n % i == 0) return false;     } return true;    }}
```

Program 15 :Java 1D Array

```
import java.util.Scanner;   public class Array1D {    public static void main(String[] args) {   Scanner scanner = new Scanner(System.in);       int n = scanner.nextInt();     int[] arr = new int[n];    for (int i = 0; i < n; i++) {     arr[i] = scanner.nextInt();       }    for (int i = 0; i < n; i++) {     System.out.print(arr[i] + " ")     }    scanner.close();   }}
```