Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        int mynum = (int)(Math.random()*100);
        Scanner sc = new Scanner(System.in);
        do {
            System.out.println("Guess the number : (1-100) , enter '-1' to exit");
            int usernum = sc.nextInt();

            if(usernum == -1) {
                System.out.println("You lose .. the number is : " + mynum);
                break;
            }
            else if(usernum == mynum){
                System.out.println("Correct guess ");
                break;
            }
            else if(usernum > mynum){
                System.out.println("Wrong , guessed number too high ");
            }
            else if(usernum < mynum){
                System.out.println("Wrong , guessed number too low");
            }

        }while(true);
    }
}
```


Main.java
1
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
int a = 3;
int b = 4;
int c = 5;
int sum = a+b+c;
System.out.println("sum of a,b and  is : " +sum);
}
}

Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        int sub1 = 80;
        int sub2 = 85;
        int sub3 = 90;
        float cgpa = (sub1+sub2+sub3)/30;
        System.out.println(cgpa);


    }
}

```


Main.java
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
System.out.println("What is your name ? ");
Scanner sc1 = new Scanner(System.in);
String name = sc1.next();
System.out.println("hello, "+name);
}
}
No problems found
Highlight: All Problems

Main.java

```java
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        System.out.println("Enter kilometres : ");
        Scanner sc1 = new Scanner(System.in);
        float kms = sc1.nextFloat();
        System.out.println(kms + " kilometres are "+ kms/1.6 + " miles");


    }
}
```

Main.java

```java
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        System.out.println("Enter your number ");
        Scanner sc = new Scanner(System.in);
        System.out.println(sc.hasNextInt());


    }
}

```

Main.java

```java
import java.util.Scanner;

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

        System.out.println("Enter total marks of individual subject : ");

        Scanner sc = new Scanner(System.in);
        float total = sc.nextFloat();

        System.out.println("Enter score of subject 1 : ");
        float s1 =  sc.nextFloat();

        System.out.println("Enter score of subject 2 : ");
        float s2 = sc.nextFloat();

        System.out.println("Enter score of subject 3 : ");
        float s3 = sc.nextFloat();

        System.out.println("Enter score of subject 4 : ");
        float s4 = sc.nextFloat();

        System.out.println("Enter score of subject 5 : ");
        float s5 = sc.nextFloat();

        float percentage = (s1+s2+s3+s4+s5)/5;
        System.out.println("Percentge score is : "+percentage);

    }
}
```

Main.java

```java
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        char grade = 'B';
        grade = (char)(grade + 8);
        System.out.println(grade);

        grade = (char)(grade - 8);
        System.out.println(grade);



    }
}

```


Main.java
1 2
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
String name = "John Doe";
String lowname = name.toLowerCase();
System.out.println(lowname);
String upname = name.toUpperCase();
System.out.println(upname);
}
}


Main.java
1
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
String name = "John Doe";
name = name.replace( target: " ", replacement: "_");
System.out.println(name);
}
}


Main.java
1
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
String text = "This String has  double and   triple spaces";
System.out.println(text.indexOf("  "));
System.out.println(text.indexOf("   "));
}
}

Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter name of student : ");
        String name = sc.next();
        System.out.println("Enter name of subject 1 : ");
        String subject1 = sc.next();
        System.out.println("Enter name of subject 2 : ");
        String subject2 = sc.next();
        System.out.println("Enter name of subject 3 : ");
        String subject3 = sc.next();
        System.out.println("Enter total marks of individual subject :");
        float total = sc.nextFloat();
        System.out.println("Enter score of "+subject1+" : ");
        float s1 = sc.nextFloat();
        System.out.println("Enter score of "+subject2+" : ");
        float s2 = sc.nextFloat();
        System.out.println("Enter score of "+subject3+" :");
        float s3 = sc.nextFloat();
        float s1per = (float)((s1/total)*100);
        float s2per = (float)((s2/total)*100);
        float s3per = (float)((s3/total)*100);
        float totalper = (float)(((s1+s2+s3)/(total*3))*100);
        if(s1per >= 33){
            System.out.println(name+ " has passed "+subject1+ " with "+s1per+ " percentage");
        }
        else {
            System.out.println(name + " has failed in " + subject1);
```

Main.java

```
public class Main {
    public static void main(String[] args) {
        float totalper = (float)(((s1+s2+s3)/(total*3))*100);
        if(s1per >= 33){
            System.out.println(name+ " has passed "+subject1+ " with "+s1per+ " percentage");
        }
        else {
            System.out.println(name + " has failed in " + subject1);
        }if(s2per >= 33){
            System.out.println(name+ " has passed "+subject2+" with "+s2per+ " percentage");
        }
        else {
            System.out.println(name + " has failed in " + subject2);
        }if(s3per >= 33){
            System.out.println(name+ " has passed "+subject3+" with "+s3per+" percentage");
        }
        else {
            System.out.println(name + " has failed in " + subject3);
        }
        if(totalper >= 40){
            System.out.println(name+" has passed the grade with "+totalper+" percentage" );
        }
    }
}
```

Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        System.out.println("Enter your annual income in lacs : ");
        Scanner sc = new Scanner(System.in);
        float income = sc.nextFloat();
        float tax = 0.0f;
        if (income < 2.5f){
            System.out.println("no income tax as out of income slab");
        }
        else if (income >= 2.5f && income <= 5.0f){
            tax = (float)((0.05f)*(income - 2.5f));
            System.out.println("tax to be paid is "+tax+" lacs");
        }
        else if(income > 5.0f && income <= 10.0f){
            tax = (float)((0.2)*(income - 2.5f));
            System.out.println("Tax to be paid is "+tax+ " lacs");
        }
        else if(income > 10.0f){
            tax = (float)((0.3)*(income-2.5f));
            System.out.println("tax to be paid is "+tax+" lacs");
        }

    }
}
```

Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        for(int i = 5 ; i > 0 ; --i){
            for(int j =0 ; j < i ; j++){
                System.out.print('*');
            }
            System.out.println("\n");
        }
    }
}
```

Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        int sum = 0;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter n till which even nums are to be added");
        int n = sc.nextInt();
        int i = 1;
        while(i<=n){
            if(i % 2 == 0){
                sum += i;
            }
            i++;
        }
        System.out.println(sum);
    }
}
```

Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("Enter number to clculate table");
        int num = sc.nextInt();
        for(int i = 1 ; i<= 10; i++){
            System.out.println(i*num);
        }
        for(int i = 10 ; i>= 1; i--){
            System.out.println(i*num);
        }
    }
}
```

Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("Enter number to calculate factorial");
        int num = sc.nextInt();
        int factorial = 1;
        for(int i = 1 ; i <=num; i++){
            factorial *= i;
        }
        System.out.println("factorial of "+num+" is "+factorial);
        int facto = 1 ;
        int j = num;
        while( j>0){
            facto *= j;
            j--;
        }
        System.out.println(facto);

    }
}
```

Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("Enter number to calculate sum of nums in it's table");
        int num = sc.nextInt();
        int sum =0;
        int i = 1;
        while( i <= 10){
            int j = i*num;
            System.out.println(j);
            sum += j;
            i++;
        }
        System.out.println("sum of numbers in table of "+num+" is "+sum);
    }
}
```

Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println(" Enter number of elements in array : ");
        int n = sc.nextInt();
        float[] nums = new float[n];
        float sum =0;
        for(int i = 0 ; i< n ; i++){
            System.out.println("enter num at "+i+" index :");
            nums[i] = sc.nextFloat();
            sum += nums[i];
        }
        float sum2 = 0;
        for( float ele : nums){
            sum2 += ele;
        }
        System.out.println(sum+" and "+sum2);

    }
}
```

Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        int[] array = { 10,20,30,40,50,60,70,80,90};
        System.out.println("Enter number to find");
        int num = sc.nextInt();
        boolean status = false;
        int i = 0;
        for(int ele : array){
            if (ele == num){
                status = true;
                break;
            }
            i++;
        }
        if (status == true){
            System.out.println("Given number "+num+" found in array at "+i+" index");
        }
        else if(status == false){
            System.out.println("Given number not found in array");
        }

    }
}
```

Main.java

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        int[] array = { 10,20,30,40,50,60,70,80,90};
        int sum = 0;
        int i =0;
        for(int ele : array){
            i++;
            sum += ele;
        }
        System.out.println("avarege is "+ (sum/i));

    }
}
```

Main.java

```java
import java.util.Arrays;
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("ENter number of elements in  array :");
        int n = sc.nextInt();
        int[] array = new int[n];
        int[] array2 = new int[n];
        for(int i =0 ; i < n ; i++){
            System.out.println("Enter element at "+i+" index in array");
            array[i] = sc.nextInt();
        }
        int j = 0;
        for(int i = n-1 ; i>=0 ; i--){
            array2[j] = array[i];
            j++;
        }
        System.out.println("Original array : "+ Arrays.toString(array));
        System.out.println("reversed array : "+ Arrays.toString(array2));

    }
}
```

Main.java

```java
import java.util.Arrays;
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("ENter number of elements in  array :");
        int n = sc.nextInt();
        int[] array = new int[n];
        for(int i = 0 ; i < n ; i++){
            System.out.println("Enter element in array at "+i+" index");
            array[i] = sc.nextInt();
        }
        int max = array[0];
        for(int i = 1 ; i < n ; i++){
            if(array[i] > max){
                max = array[i];
            }
        }
        System.out.println("Greatest element in array is : "+max);
    }
}
```

Main.java

```java
import java.util.Arrays;
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("ENter number of elements in  array :");
        int n = sc.nextInt();
        int[] array = new int[n];
        for(int i = 0 ; i < n ; i++){
            System.out.println("Enter element in array at "+i+" index");
            array[i] = sc.nextInt();
        }
        int min = array[n-1];
        for(int i = 0 ; i < n ; i++){
            if(array[i] < min ){
                min = array[i];
            }
        }
        System.out.println("shortest element in array is : "+min);
    }
}
```

Main.java

```java
import java.util.Arrays;
import java.util.Scanner;
public class Main {
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("ENter number of elements in  array :");
        int n = sc.nextInt();
        int[] array = new int[n];
        for(int i = 0 ; i < n ; i++){
            System.out.println("Enter element in array at "+i+" index");
            array[i] = sc.nextInt();
        }
        System.out.println("original array : "+ Arrays.toString(array));
        for(int i = 0 ; i < n ; i++){
            for(int j = 0 ; j < i ; j++){
                if(array[i] < array[j]){
                    int temp = array[i];
                    array[i] = array[j];
                    array[j] = temp ;
                }
            }
        }
        System.out.println("Sorted array : "+ Arrays.toString(array));
    }
}
```

Main.java

```java
import java.util.Arrays;
import java.util.Scanner;
public class Main {

    public static void table(int num){  1 usage
        for(int i = 1 ; i < 11 ; i++){
            System.out.println(i*num);
        }
    }
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("ENter number  :");
        int n = sc.nextInt();
        table(n);
    }
}
```

Main.java

```java
import java.util.Arrays;
import java.util.Scanner;
public class Main {

    public static void pyramid(int num){  1 usage
        for(int i = 1 ; i <= num+1 ; i++){
            for(int j = 1 ; j < i ; j++){
                System.out.print("*");
            }
            System.out.println();
        }
    }
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("ENter number  :");
        int n = sc.nextInt();
        pyramid(n);
    }
}
```

Main.java

```java
import java.util.Arrays;
import java.util.Scanner;
public class Main {

    public static int sum(int num){  2 usages
        if(num == 1){
            return 1 ;
        }
        else {
            return num + sum( num: num-1);
        }
    }
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("ENter number  :");
        int n = sc.nextInt();
        int sum = sum(n);
        System.out.println(sum);
    }
}
```

Main.java

```java
import java.util.Arrays;
import java.util.Scanner;
public class Main {

    public static int fibo(int num){  3 usages
        if ( num <= 1 ){
            return 1;
        }
        else {
            return fibo( num: num-1) + fibo( num: num-2);
        }

    }
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("ENter number  :");
        int n = sc.nextInt();
        int fibo = fibo(n);
        System.out.println(fibo);
    }
}
```

Main.java

```java
import java.util.Scanner;
public class Main {

    public static int[] fibo(int num){  1 usage
        int[] fiboseries = new int[num];
        fiboseries[0] = 0;
        fiboseries[1] = 1;
        if(num <=2 ){
            fiboseries = fiboseries;
        }
        else if(num > 2){
            for(int i = 2 ; i < num ; i++){
                fiboseries[i] = fiboseries[i-1] + fiboseries[i-2];
            }
        }
        return fiboseries;
    }
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        System.out.println("ENter number  :");
        int n = sc.nextInt();
        int[] fibo = fibo(n);
        System.out.println(Arrays.toString(fibo));
    }
}
```

Main.java

```java
import java.util.Arrays;
import java.util.Scanner;
public class Main {
    public static float average(int[] array, int size){  1 usage
        int sum =0 ;
        for(int ele : array){
            sum += ele;
        }
        return (float)(sum)/size;

    }
    public static void main(String[] args){
        Scanner sc =new Scanner(System.in);
        int i =0 ;
        int[] array = new int[50];
        while(true){
            System.out.println("Enter number to find average | enter -1 to exit ");
            int num = sc.nextInt();
            if(num == -1){
                break;
            }
            else {
                i++;
                array[i] = num;
            }
        }
        float average = average(array, i);
        System.out.println("Average is : "+ (float)(average));
    }
}
```