*Java Program.txt - Notepad

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```
import java.util.Scanner;

public class Employeess {

    static String name;
    static int id;
    static double basicpay, da, hra, pf, tax, grosspay, deduction, netpay;

    public static void main(String args[]) {
        acceptInput();
        calculatePay(basicpay);
        displayDetails();
    }

    public static void acceptInput() {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter Employee ID: ");
        id = scanner.nextInt();
        scanner.nextLine();

        System.out.print("Enter Employee Name: ");
        name = scanner.nextLine();

        System.out.print("Enter Basic Pay: ");
        basicpay = scanner.nextDouble();
    }

    public static void calculatePay(double basic) {
        if (basic > 20000) {
            da = 0.585 * basic;
            hra = 0.15 * basic;
            pf = 0.20 * basic;
            tax = 0.17 * basic;
```

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*Java Program.txt - Notepad

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```
            hra = 0.15 * basic;
            pf = 0.20 * basic;
            tax = 0.17 * basic;
        } else if (basic > 15000) {
            da = 0.46 * basic;
            hra = 0.12 * basic;
            pf = 0.15 * basic;
            tax = 0.12 * basic;
        } else {
            da = 0.425 * basic;
            hra = 1500;
            pf = 0.10 * basic;
            tax = 0;
        }

        grosspay = basic + da + hra;
        deduction = pf + tax;
        netpay = grosspay - deduction;
    }

    public static void displayDetails() {
        System.out.println("Employee ID: " + id);
        System.out.println("Employee Name: " + name);
        System.out.println("Basic Pay: " + basicpay);
        System.out.println("DA: " + da);
        System.out.println("HRA: " + hra);
        System.out.println("PF: " + pf);
        System.out.println("Tax: " + tax);
        System.out.println("Gross Pay: " + grosspay);
        System.out.println("Deduction: " + deduction);
        System.out.println("Net Pay: " + netpay);
    }
}
```

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Employeess.java

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Output | Clear

```java
import java.util.Scanner;

public class Employeess {

    static String name;
    static int id;
    static double basicpay, da, hra, pf, tax, grosspay, deduction
        , netpay;

    public static void main(String args[]) {
        acceptInput();
        calculatePay(basicpay);
        displayDetails();
    }

    public static void acceptInput() {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter Employee ID: ");
```

```
Enter Employee ID: 100
Enter Employee Name: Shruthi
Enter Basic Pay: 5000
Employee ID: 100
Employee Name: Shruthi
Basic Pay: 5000.0
DA: 2125.0
HRA: 1500.0
PF: 500.0
Tax: 0.0
Gross Pay: 8625.0
Deduction: 500.0
Net Pay: 8125.0

=== Code Execution Successful ===
```

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*array.txt - Notepad

File Edit Format View Help

```
import java.util.Scanner;
public class Shape {
    public int volume(int side) {
        return side * side * side;
    }

    public int volume(int length, int breadth, int height) {
        return length * breadth * height;
    }

    public double volume(float radius) {
        return (4.0 / 3) * radius * radius * radius;
    }

    public void Shape() {
        Scanner scanner = new Scanner(System.in);
        Shape obj = new Shape();

        System.out.print("Enter side of cube: ");
        int side = scanner.nextInt();
        System.out.println("Volume of Cube: " + obj.volume(side));

        System.out.print("\nEnter length, breadth and height of cuboid: ");
        int l = scanner.nextInt();
        int b = scanner.nextInt();
        int h = scanner.nextInt();
        System.out.println("Volume of Cuboid: " + obj.volume(l, b, h));

        System.out.print("\nEnter radius of sphere: ");
        float radius = scanner.nextInt();
        System.out.println("Volume of Sphere: " + obj.volume(radius));
    }

    public static void main(String[] args) {
        Shape s = new Shape();
        s.Shape();
    }
}
```

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Shape.java

Share Run

Output Clear

```java
import java.util.Scanner;

public class Shape {
    public int volume(int side) {
        return side * side * side;
    }

    public int volume(int length, int breadth, int height) {
        return length * breadth * height;
    }

    public double volume(float radius) {
        return (4.0 / 3) * radius * radius * radius;
    }

    public void Shape() {
        Scanner scanner = new Scanner(System.in);
        Shape obj = new Shape();
```

```
Enter side of cube: 4
Volume of Cube: 64

Enter length, breadth and height of cuboid: 3
3
3
Volume of Cuboid: 27

Enter radius of sphere: 50
Volume of Sphere: 166666.66666666666

=== Code Execution Successful ===
```

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```
import java.util.Scanner;

public class BillSearch {

    static int binarySearch(int arr[], int left, int right, int value) {
        if (left > right) {
            return -1;
        }

        int mid = (left + right) / 2;

        if (arr[mid] == value) {
            return mid;
        } else if (value < arr[mid]) {
            return binarySearch(arr, left, mid - 1, value);
        } else {
            return binarySearch(arr, mid + 1, right, value);
        }
    }

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

        System.out.print("Enter number of bills: ");
        int n = scanner.nextInt();

        int bills[] = new int[n];
        System.out.println("Enter bill totals: ");
        for (int i = 0; i < n; i++) {
```

```
        }
    }

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

        System.out.print("Enter number of bills: ");
        int n = scanner.nextInt();

        int bills[] = new int[n];
        System.out.println("Enter bill totals: ");
        for (int i = 0; i < n; i++) {
            bills[i] = scanner.nextInt();
        }

        System.out.print("Enter bill total to search: ");
        int searchValue = scanner.nextInt();

        int result = binarySearch(bills, 0, n - 1, searchValue);

        if (result == -1) {
            System.out.println("Bill total not found in the list.");
        } else {
            System.out.println("Bill total found at position: " + (result + 1));
        }
    }
}
```

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BillSearch.java

Share Run

Output Clear

```
31      }
32
33      System.out.print("Enter bill total to search: ");
34      int searchValue = scanner.nextInt();
35
36      int result = binarySearch(bills, 0, n - 1, searchValue);
37
38      if (result == -1) {
39          System.out.println("Bill total not found in the list
                .");
40      } else {
41          System.out.println("Bill total found at position: " +
                (result + 1));
42      }
43  }
44 }
45
46
```

```
Enter number of bills: 5
Enter bill totals:
158
386
478
691
943
Enter bill total to search: 500
Bill total not found in the list.

=== Code Execution Successful ===
```

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BillSearch.java

Share Run

Output Clear

```
31      }
32
33      System.out.print("Enter bill total to search: ");
34      int searchValue = scanner.nextInt();
35
36      int result = binarySearch(bills, 0, n - 1, searchValue);
37
38      if (result == -1) {
39          System.out.println("Bill total not found in the list
                .");
40      } else {
41          System.out.println("Bill total found at position: " +
                (result + 1));
42      }
43  }
44 }
45
46
```

```
Enter number of bills: 4
Enter bill totals:
111
444
666
999
Enter bill total to search: 444
Bill total found at position: 2

=== Code Execution Successful ===
```

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