Java Basics – 15 Programs

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1) HelloWorld.java

```
public class HelloWorld {
    public static void main(String[] args) {
        System.out.println("Hello World");
    }
}
```

2) PrintName.java

```
public class PrintName {
    public static void main(String[] args) {
        System.out.println("My name is Raj");
    }
}
```

3) AddTwoNumbers.java

```
import java.util.Scanner;

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

        System.out.print("Enter first number: ");
        int a = sc.nextInt();

        System.out.print("Enter second number: ");
        int b = sc.nextInt();

        System.out.println("Sum = " + (a + b));
        sc.close();
    }
}
```

4) SwapNumbers.java

```
import java.util.Scanner;

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

        int a = sc.nextInt();
        int b = sc.nextInt();

        int temp = a;
        a = b;
        b = temp;

        System.out.println("After swap: a=" + a + " b=" + b);
        sc.close();
    }
}
```

5) SwapWithoutTemp.java

```
import java.util.Scanner;

public class SwapWithoutTemp {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
```

```
        int a = sc.nextInt();
        int b = sc.nextInt();

        a = a + b;
        b = a - b;
        a = a - b;

        System.out.println("After swap: a=" + a + " b=" + b);
        sc.close();
    }
}
```

6) AreaOfCircle.java

```
import java.util.Scanner;

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

        System.out.print("Enter radius: ");
        double r = sc.nextDouble();

        double area = Math.PI * r * r;
        System.out.println("Area = " + area);

        sc.close();
    }
}
```

7) AreaOfRectangle.java

```
import java.util.Scanner;

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

        System.out.print("Enter length: ");
        double l = sc.nextDouble();

        System.out.print("Enter breadth: ");
        double b = sc.nextDouble();

        System.out.println("Area = " + (l * b));
        sc.close();
    }
}
```

8) SimpleInterest.java

```
import java.util.Scanner;

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

        System.out.print("Enter principal: ");
        double p = sc.nextDouble();

        System.out.print("Enter rate: ");
        double r = sc.nextDouble();

        System.out.print("Enter time: ");
        double t = sc.nextDouble();

        double si = (p * r * t) / 100;
        System.out.println("Simple Interest = " + si);

        sc.close();
    }
}
```

9) CompoundInterest.java

```
import java.util.Scanner;

public class CompoundInterest {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
```

```
        System.out.print("Enter principal: ");
        double p = sc.nextDouble();

        System.out.print("Enter rate: ");
        double r = sc.nextDouble();

        System.out.print("Enter time: ");
        double t = sc.nextDouble();

        double amount = p * Math.pow((1 + r / 100), t);
        double ci = amount - p;

        System.out.println("Compound Interest = " + ci);
        sc.close();
    }
}
```

10) CelsiusToFahrenheit.java

```
import java.util.Scanner;

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

        System.out.print("Enter Celsius: ");
        double c = sc.nextDouble();

        double f = (c * 9 / 5) + 32;
        System.out.println("Fahrenheit = " + f);

        sc.close();
    }
}
```

11) FahrenheitToCelsius.java

```
import java.util.Scanner;

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

        System.out.print("Enter Fahrenheit: ");
        double f = sc.nextDouble();

        double c = (f - 32) * 5 / 9;
        System.out.println("Celsius = " + c);

        sc.close();
    }
}
```

12) EvenOdd.java

```
import java.util.Scanner;

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

        System.out.print("Enter number: ");
        int n = sc.nextInt();

        if (n % 2 == 0) {
            System.out.println("Even");
        } else {
            System.out.println("Odd");
        }

        sc.close();
    }
}
```

13) PositiveNegative.java

```
import java.util.Scanner;

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

        System.out.print("Enter number: ");
        int n = sc.nextInt();

        if (n > 0) {
            System.out.println("Positive");
        } else if (n < 0) {
            System.out.println("Negative");
        } else {
            System.out.println("Zero");
        }

        sc.close();
    }
}
```

14) LargestOfTwo.java

```
import java.util.Scanner;

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

```
        Scanner sc = new Scanner(System.in);

        int a = sc.nextInt();
        int b = sc.nextInt();

        if (a > b) {
            System.out.println("Largest = " + a);
        } else {
            System.out.println("Largest = " + b);
        }

        sc.close();
    }
}
```

15) AsciiValue.java

```
import java.util.Scanner;

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

        System.out.print("Enter a character: ");
        char ch = sc.next().charAt(0);

        System.out.println("ASCII = " + (int) ch);
        sc.close();
    }
}
```