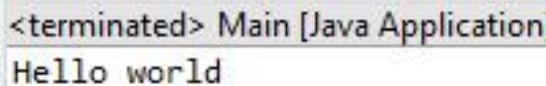


1) Write a Java program to print "Hello, World!" to the console.

Program :-

```
package package_demo;    // package
public class Main {
    public static void main(String []args) {
        System.out.println("Hello world");
    }
}
```

Output :-



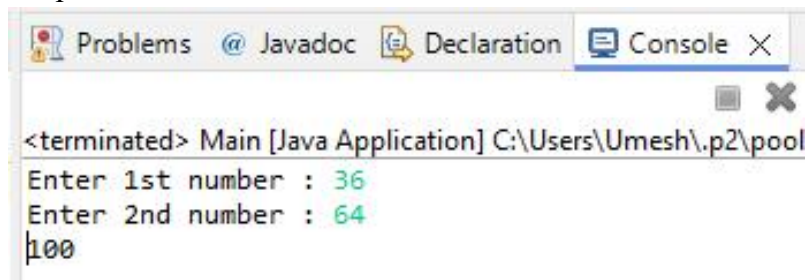
The screenshot shows a console window titled "<terminated> Main [Java Application]". The output text is "Hello world".

2) Write a program to find the sum of two numbers entered by the user.

Program :-

```
package package_demo;    // package
import java.util.*;       //importing java.util package
public class Main {
    public static void main(String []args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter 1st number : ");
        int a = sc.nextInt();
        System.out.print("Enter 2nd number : ");
        int b = sc.nextInt();
        System.out.println(add(a,b));    // calling add() method
    }
    static int add(int a, int b) {
        return a + b;
    }
}
```

Output :-



The screenshot shows a console window titled "<terminated> Main [Java Application] C:\Users\Umesh\.p2\pool". The output text is "Enter 1st number : 36", "Enter 2nd number : 64", and "100".

3) Write a Java program to check whether a given number is even or odd

Program :-

```
package package_demo;    // package
public class Main {
    public static void main(String []args) {
        int x = 405750;
        if(x % 2 == 0) {    // logic
            System.out.println("is even number : " + x);
        } else {
            System.out.println("is odd number : " + x);
        }
    }
}
```

```
}  
}
```

Output :-



```
<terminated> Main [Java Applicatic  
is even number : 405750
```

4) Write a java program to find greatest of 3 numbers.

Program :-

```
package package_demo;    // package  
public class MainDemo {   // class  
  
    public static void main(String []args) {  
        int x = 3;  
        int y = 56;  
        int z = 27;  
        if (x > y && x > z) {    // logic  
            System.out.println("Largest : " + x);  
        } else if (y > z) {  
            System.out.println("Largest : " + y);  
        } else {  
            System.out.println("Largest : " + z);  
        }  
    }  
}
```

Output :-



```
<terminated> MainDemo [Java App  
Largest : 56
```

5) Write a program to implement a basic calculator that takes input and evaluates it.

Program :-

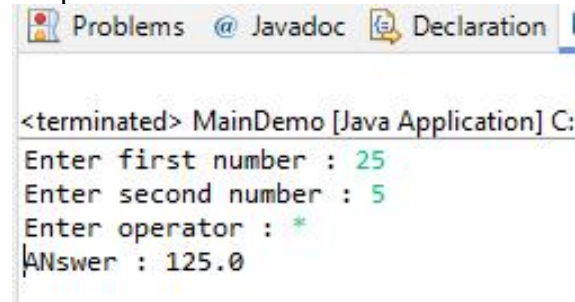
```
package package_demo;    // package  
import java.util.*;       //importing java.util package  
public class MainDemo {  
    public static void main(String []args) {  
        Scanner sc = new Scanner(System.in);  
        System.out.print("Enter first number : ");  
        double a = sc.nextInt();    //taking operand  
        System.out.print("Enter second number : ");  
        double b = sc.nextInt();    //taking operand  
        System.out.print("Enter operator : ");  
        String operator = sc.next();    //taking operator  
        sc.close();  
        System.out.print("ANswer : " + func(a,b,operator));    //calling method  
    }  
}
```

```

static double func(double a, double b, String operator) { //logic
    double ans = 0;
    switch (operator) {
        case "+":
            ans = a + b;
            break;
        case "-":
            ans = a - b;
            break;
        case "*":
            ans = a * b;
            break;
        case "/":
            ans = a / b;
            break;
        default:
            System.out.println("Invalid operator");
    }
    return ans;
}
}

```

Output :-



```

<terminated> MainDemo [Java Application] C:
Enter first number : 25
Enter second number : 5
Enter operator : *
ANSwer : 125.0

```

6) Write a Java program to check if a given number is prime or not.

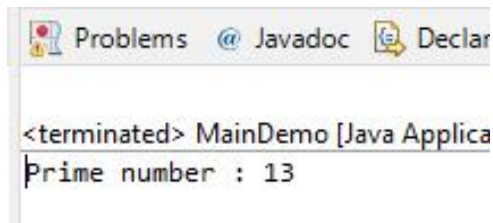
Program :-

```

package package_demo; // package
import java.util.*; //importing java.util package
public class MainDemo {
    public static void main(String []args) {
        int x = 13; //number to check
        int count = 0; // counter
        for (int i = 1; i <= x; i++) { // logic
            if (x % i == 0) {
                count++;
            }
        }
        if (count == 2) {
            System.out.println("Prime number : " + x);
        } else {
            System.out.println("Not a Prime number : " + x);
        }
    }
}

```

Output :-

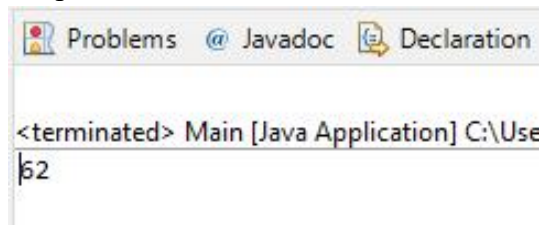


7) Create a Java program that compares two numbers and prints the larger one.

Program :-

```
package package_demo;    // package
public class Main {
    public static void main(String []args) {
        int x = 13;
        int y = 62;
        System.out.println(func(x,y));    //calling method
    }
    static int func(int x, int y) {        // logic
        int max = Integer.MIN_VALUE;
        if(x > max) {
            max = x;
        }
        if(y > max) {
            max = y;
        }
        return max;
    }
}
```

Output :-



8) Write a Java program that takes an age input from the user and determines if they are eligible to vote (considering the legal voting age) .

Program :-

```
package package_demo;    // package
import java.util.*;       //importing java.util package
public class Main {
    public static void main(String []args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter age : ");
        int age = sc.nextInt();
        if(func(age)) {    //calling method
            System.out.println("Eligible to vote");
        } else {
            System.out.println("Not Eligible to vote");
        }
    }
    static boolean func(int age) {
        boolean res;
        if(age >= 18) {
            res = true;
        } else {

```

```
        res = false;
    }
    return res;
}
```

Output :-

```
<terminated> Main [Java Application] C:\
Enter age : 23
Eligible to vote
```

```
Problems @ Javadoc Decla
<terminated> Main [Java Application]
Enter age : 14
Not Eligible to vote
```