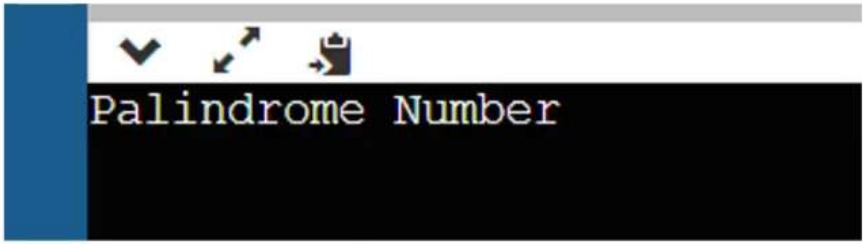
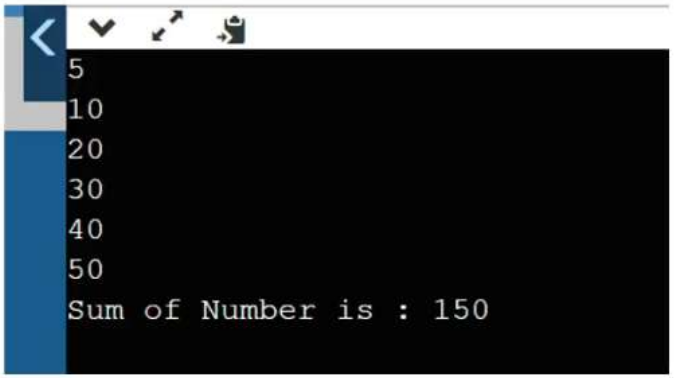
1 . Palindrome Number

```java
import java.util.*;
public class Main
{
    public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    int n = 454,temp,r;
    int sum = 0;

    temp = n;

    while(n!=0)
    {
      r = n % 10;  // Getting Remaindar
      sum = (sum*10) + r ;
      n = n/10;

    }

    if(temp==sum)
    {
        System.out.println("Palindrome Number");
    }
    else
    {
        System.out.println("Not Palindrome Number");
    }


    }
}
```



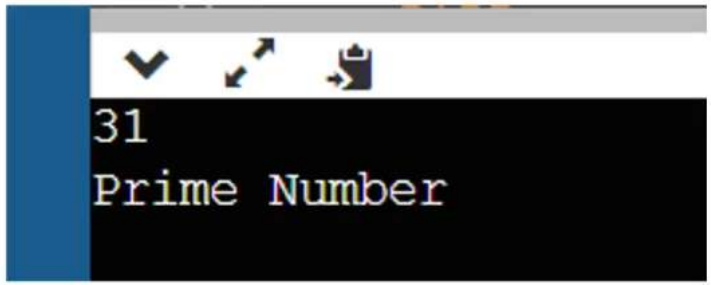
2. Sum of Number (User Input.)

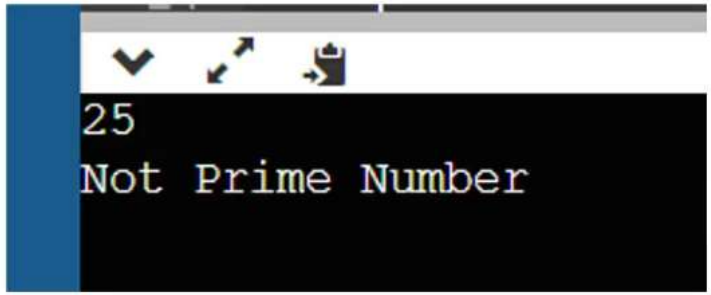
```java
import java.util.*;
public class Main
{
    public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    int size = sc.nextInt();
    int sum=0;
    int a[] = new int[size];

    for(int i=0;i<=size-1;i++)
    {
        a[i]=sc.nextInt();
    }

    for(int i=0;i<=size-1;i++)
    {
         sum = sum + a[i];
    }

    System.out.println("Sum of Number is : " + sum);

    }
}
```



3. Check Prime Number

```java
import java.util.*;
public class Main
{
    public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    int a = sc.nextInt(); // 25 , 31
    int c = 0 ;
    for(int i=2; i<= a/2; i++)
    {
        if(a % i == 0)
        {
            c = c+1;
            break;
        }

    }
    if(c==1)
    {
        System.out.println("Not Prime Number");
    }
    else
    {
        System.out.println("Prime Number");
    }


    }
}
```





4. Reverse String

```java
import java.util.*;
public class Main
{
    public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    String rev = "";
    String a = sc.nextLine();
    char ch [] = a.toCharArray();

    for(int i=ch.length-1;i>=0;i--)
    {
        rev = rev + ch[i];
    }

    System.out.println("Reverse String  : " + rev);

    }
}
```

5. Reverse Number

Main.java

```java
import java.util.*;
public class Main
{
    public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    int num = sc.nextInt();
    int rem,sum=0;

    while(num!=0)
    {
        rem = num %10;
        sum = (sum*10)+rem;
        num = num/10;
    }

    System.out.println("reverse number : " + sum);

    }
}
```

input

```
123456
reverse number : 654321
```

6. Pattern Question

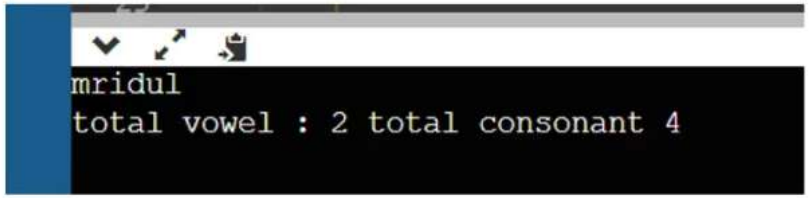
Main.java

```java
import java.util.*;
public class Main
{
    public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    for(int i=1;i<=5;i++)
    {
        for(int j=1; j<=i; j++)
        {
            System.out.print(" * ");
        }

        System.out.println();
    }


    }
}
```

```
*
* *
* * *
* * * *
* * * * *
```

7. Count vowel and consonant

```java
import java.util.*;
public class Main
{
    public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    String str = sc.nextLine();
     str = str.toLowerCase();
    char ch [] = str.toCharArray();
    int vowel=0, cons=0;

    for(int i=0;i<ch.length;i++)
    {
        if(ch[i]=='a' || ch[i]=='e' || ch[i]=='i' || ch[i] == 'o' || ch[i]=='u')
        {
            vowel = vowel + 1;
        }
        else
        {
            cons = cons + 1;
        }

    }
    System.out.println("total vowel : " + vowel + " total consonant "+cons);


    }
}
```



8. Swapping two Number without third Variables

Main.java

```java
import java.util.*;
public class Main
{
    public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

     int x = 20 ;
     int y = 30 ;

      x = x + y ;
      y = x - y ;
      x = x - y;

      System.out.println("x = "+x + " y = " + y);

    }
}
```

input

```
x = 30 y = 20
```

9. Search element in an Array

Main.java

```java
import java.util.*;
public class Main
{
    public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    int size = sc.nextInt();
    int arr[] = new int[size];
    int c =0;

    for(int i=0;i<arr.length;i++)
    {
        arr[i] = sc.nextInt();
    }
    System.out.println("Search element");
    int search = sc.nextInt();

    for(int i=0;i<arr.length;i++)
    {
        if(arr[i]==search)
        {
            c = c+1;
            break;
        }
    }
    if(c==1)
    {
        System.out.println("Element found");
    }
    else
    {
        System.out.println("Element not found");
    }

    }
}
```

10. Bubble sort

Main.java

```java
import java.util.*;
public class Main
{
    public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    int arr[] = {30 , 50 , 10 , 60 , 20};
    int temp ;

    for(int i=0;i<arr.length;i++)
    {
        for(int j = i+1 ; j<arr.length;j++)
        {
            if(arr[i]>arr[j])
            {
                temp = arr[i];
                arr[i] = arr[j];
                arr[j] = temp;
            }

        }
    }

    for(int i=0;i<arr.length;i++)
    {
        System.out.print(arr[i]+" ");
    }

    }
}
```