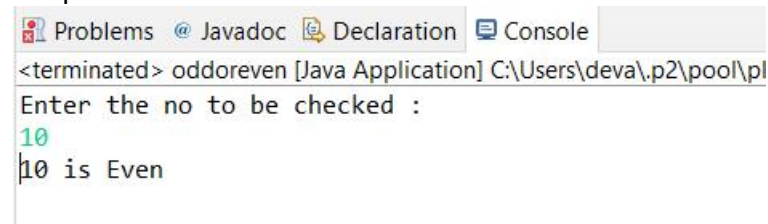


SUBMITTED BY : DEVA S

1.

```
package assignment2;
import java.util.*;
public class oddoreven {
public static void main(String[] args)
{
    int a;
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter the no to be checked : ");
    a=sc.nextInt();
    if( a%2 == 0 )
    {
        System.out.println(a+" is Even");
    }
    else
    {
        System.out.println(a+" is Odd");
    }
}
}
```

Output



```
<terminated> oddoreven [Java Application] C:\Users\deva\.p2\pool\pl
Enter the no to be checked :
10
10 is Even
```

2.

```
package assignment2;
import java.util.*;
public class swap {
    public void Swap(int a,int b)
    {
        int temp;
        temp=a;
        a=b;
        b=temp;
        System.out.println(a+" "+b);
    }
public static void main(String[] args)
{
    int a , b;
```

```

Scanner sc = new Scanner(System.in);
System.out.println("Enter a's value : ");
a=sc.nextInt();
System.out.println("Enter b's value : ");
b=sc.nextInt();
swap obj= new swap();
System.out.println("The values after Swapping : ");
obj.Swap(a,b);

}

}

```

Output:



```

<terminated> swap [Java Application] C:\Users\deva\.p2\pool\plugins\
Enter a's value :
10
Enter b's value :
15
The values after Swapping :
15 10

```

3.

```

package assignment2;
import java.util.*;
public class largest {

    public int largest(int a,int b,int c)
    {
        int t=b;
        if(a>=b)
        {
            t=a;
        }
        if(t>=c)
        {
            return t;
        }
        else
        {
            return c;
        }
    }

    public static void main(String[] args)

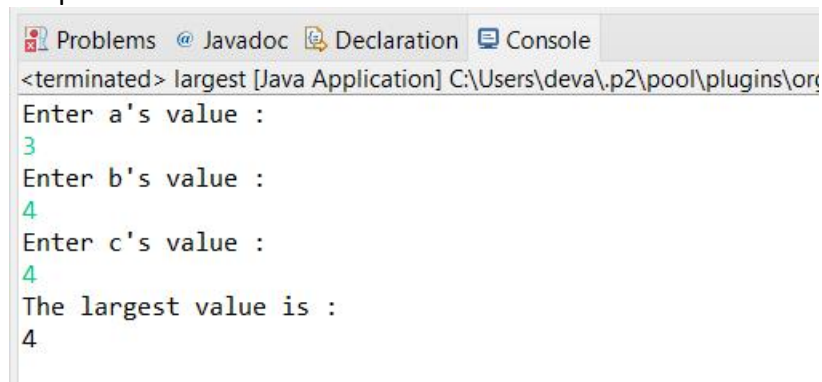
```

```

    {
        int a , b ,c;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a's value : ");
        a=sc.nextInt();
        System.out.println("Enter b's value : ");
        b=sc.nextInt();
        System.out.println("Enter c's value : ");
        c=sc.nextInt();
        largest obj= new largest();
        System.out.println("The largest value is : ");
        System.out.println(obj.largest(a,b,c));
    }
}

```

Output:



```

Problems  @ Javadoc  Declaration  Console
<terminated> largest [Java Application] C:\Users\deva\p2\pool\plugins\org
Enter a's value :
3
Enter b's value :
4
Enter c's value :
4
The largest value is :
4

```

4.

```

package assignment2;
import java.util.*;
public class character {

    public static void main(String[] args)
    {
        char a ;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a's value : ");
        a=sc.next().charAt(0);

        switch(a)
        {
            case 'a':
                System.out.println("Vowel");

```

```

        break;
    case 'e':
        System.out.println("Vowel");
        break;
    case 'i':
        System.out.println("Vowel");
        break;
    case 'o':
        System.out.println("Vowel");
        break;
    case 'u':
        System.out.println("Vowel");
        break;
    default:
        System.out.println("Not Vowel");
}

```

```

}

```

```

}

```

Output:

<terminated> character [Java Application] C:\Users\deva\.p2

Enter a's value :

z

Not Vowel

5.

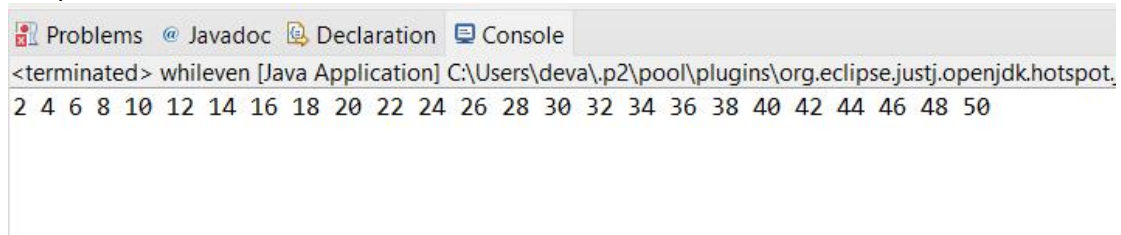
```

package assignment2;
import java.util.*;
public class whileven {
    public static void main(String[] args)
    {
        int n=1;
        while(n<=50)
        {
            if(n%2==0)
            {
                System.out.print(n+" ");
            }
            n++;
        }
    }
}

```

```
}
```

Output:

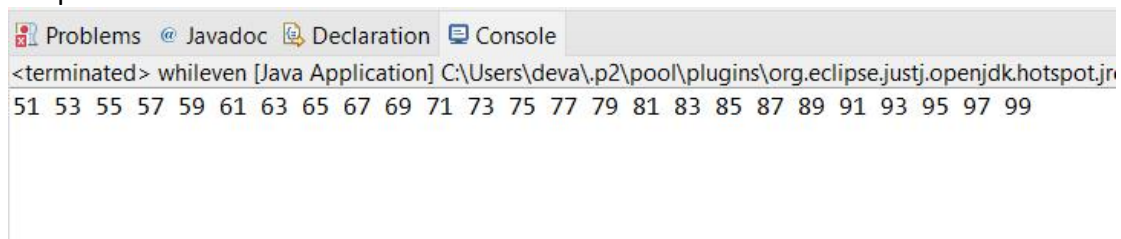


```
Problems @ Javadoc Declaration Console
<terminated> whileven [Java Application] C:\Users\deva\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre8.win32.x86_64\jre\bin\java.exe
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50
```

6.

```
package assignment2;
import java.util.*;
public class whileodd {
    public static void main(String[] args)
    {
        int n=50;
        while((n>=50)&&(n<=100))
        {
            if(n%2!=0)
            {
                System.out.print(n+" ");
            }
            n++;
        }
    }
}
```

Output:



```
Problems @ Javadoc Declaration Console
<terminated> whileven [Java Application] C:\Users\deva\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre8.win32.x86_64\jre\bin\java.exe
51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99
```

7.

```
package assignment2;
import java.util.*;
public class sumofeven {

    public static void main(String[] args)
    {
        int n,i=1,sum=0;
        Scanner sc= new Scanner(System.in);
        System.out.println("Enter the number: ");
        n=sc.nextInt();
```

```

        while(i<=n)
        {
            if(i%2==0)
            {
                sum+=i;
            }
            i++;
        }
        System.out.println("Sum of Even nos from 1 to "+n+"
is : "+sum);
    }

}

```

Output:

```

<terminated> sumofeven [Java Application] C:\Users\deva\.p2\
Enter the number:
50
Sum of Even nos from 1 to 50 is : 650

```

```

8.package assignment2;
import java.util.*;
public class firstpattern {
public static void main(String[] args)
{
    int n;
    Scanner sc= new Scanner(System.in);
    System.out.println("Enter the no of Rows: ");
    n=sc.nextInt();
    for(int i=1;i<=n;i++)
    {
        for(int j=1;j<=i;j++)
        {

            System.out.print(j);

        }
        System.out.println();
    }
}

}

```

Output:

<terminated> firstpattern [Java Application] C:\Users\deva\

Enter the no of Rows:

6

1

12

123

1234

12345

123456

```
package assignment2;
import java.util.*;
public class firstpattern {
public static void main(String[] args)
{
    int n;
    Scanner sc= new Scanner(System.in);
    System.out.println("Enter the no of Rows: ");
    n=sc.nextInt();
    for(int i=1;i<=n;i++)
    {
        for(int j=1;j<=n;j++)
        {

            System.out.print(n);

        }
        System.out.println();
    }
}

}
```

Output:

<terminated> firstpattern [Java Application] C:\Users\deva\p2\p

Enter the no of Rows:

4

4444

4444

4444

4444

```
package assignment2;
import java.util.*;
public class firstpattern {
public static void main(String[] args)
{
    int n;
    Scanner sc= new Scanner(System.in);
```

```

System.out.println("Enter the no of Rows: ");
n=sc.nextInt();
for(int i=1;i<=n;i++)
{
    for(int j=1;j<=(n-i);j++)
    {
        System.out.print(" ");
    }
    for(int k=1;k<=i;k++)
    {
        System.out.print("*");
    }

    System.out.println();
}
}
}

```

Output:

```

<terminated> firstpattern [Java Application] C:\Users\d
Enter the no of Rows:

5
  *
 **
***
****
*****

```

9.

```
package assignment2;
```

```
import java.util.Scanner;
```

```

public class reversearray {
public static void main(String[] args)
{
    int m;
    Scanner sc= new Scanner(System.in);
    System.out.println("Enter array size: ");
    m=sc.nextInt();
    int a[]= new int[m];
    System.out.println("Enter array values: ");
    for(int i=0;i<m;i++)
    {
        int t=sc.nextInt();
        a[i]=t;
    }
}
}

```

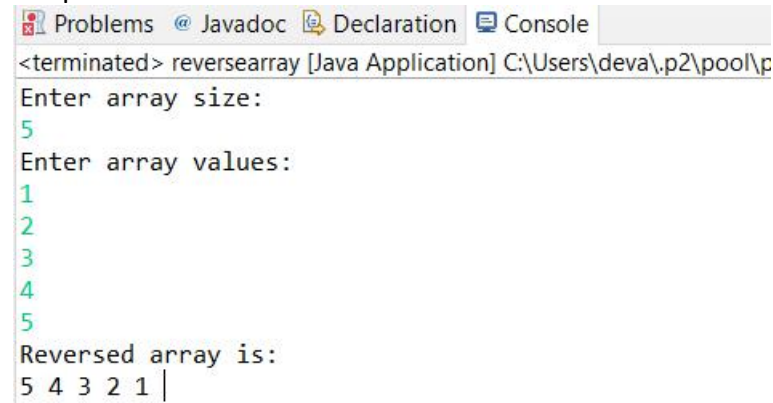


```

    }
    int n= a.length;
    int[] b = new int[n];
    int j = n;
    for (int i = 0; i < n; i++) {
        b[j - 1] = a[i];
        j = j - 1;
    }
    System.out.println("Reversed array is: ");
    for (int k = 0; k < n; k++) {
        System.out.print(b[k]+" ");
    }
}
}
}

```

Output:



The screenshot shows an IDE window with tabs for Problems, Javadoc, Declaration, and Console. The Console tab is active, displaying the output of a Java application. The program prompts the user to enter the array size (5) and then the array values (1, 2, 3, 4, 5). It then prints the reversed array: 5 4 3 2 1.

```

<terminated> reversearray [Java Application] C:\Users\deva\.p2\pool\p
Enter array size:
5
Enter array values:
1
2
3
4
5
Reversed array is:
5 4 3 2 1 |

```

10.

```

package assignment2;
import java.util.*;
public class swapadj {

    public static void main(String args[]) {

        int i, t ,m;
        System.out.println("Enter array size :");
        Scanner sc = new Scanner(System.in);
        m=sc.nextInt();
        int arr[] = new int[m];
        System.out.print("Enter array numbers:");

        for (i = 0; i < m; i++) {
            arr[i] = sc.nextInt();
        }

        i = 0;
        while (i < m - 1) {

```

```

        t = arr[i];
        arr[i] = arr[i + 1];
        arr[i + 1] = t;
        i = i + 2;
    }

    System.out.print("After swap list are:");
    for (i = 0; i < m; i++) {
        System.out.print(" " + arr[i]);
    }
}

```

Output:

```

<terminated> swapadj [Java Application] C:\Users\deva\.p2\pool\plugins\
Enter array size :
6
Enter array numbers:1
2
3
4
5
6
After swap list are: 2 1 4 3 6 5

```

11.

```

package assignment2;
import java.util.*;
public class factorial {
    int fact;
    public int fact(int i)
    {
        if(i>1)
        {
            fact=i*fact(i-1);
            return fact;
        }
        else {
            return 1;
        }
    }

    public static void main(String args[]) {
        System.out.println("Enter the number:");
        int n;
        Scanner sc = new Scanner(System.in);
        n=sc.nextInt();
        factorial f= new factorial();
        System.out.println(f.fact(n));
    }
}

```

```
}
```

Output:



```
<terminated> factorial [Java Application] C:\Users\deva\p2\pool\p
Enter the number:
5
120
```

12.

```
package assignment2;
```

```
import java.util.Scanner;
import java.util.*;
public class prime {
    public static void main(String args[]) {
        int i;
        boolean isPrime = true;
        System.out.println("Enter a positive integer: ");
        int n;
        Scanner sc = new Scanner(System.in);
        n=sc.nextInt();
        if (n == 0 || n == 1) {
            isPrime = false;
        }
        else {
            for (i = 2; i <= n / 2; ++i) {
                if (n % i == 0) {
                    isPrime = false;
                    break;
                }
            }
        }
        if (isPrime)
            System.out.println(n+" is a prime number ");
        else
            System.out.println(n+" is a not prime number ");
    }
}
```

Output:

Problems Javadoc Declaration Console  
 <terminated> prime [Java Application] C:\Users\deva\p2\pool\plugins\  
 Enter a positive integer:  
 13  
 13 is a prime number

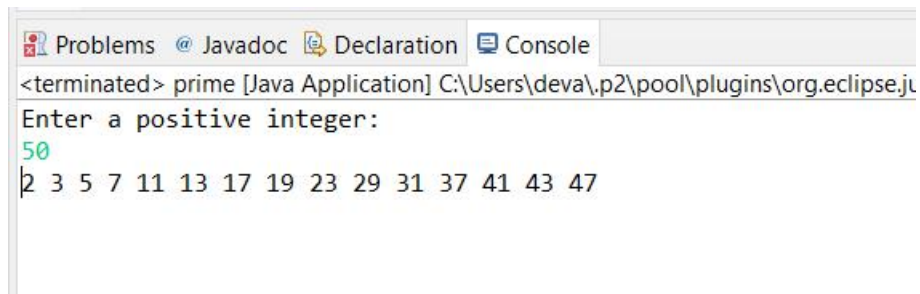
```
13.package assignment2;
import java.util.Scanner;
import java.util.*;
public class prime {
    boolean primee(int n)
    {
        boolean isPrime = true;
        if (n == 0 || n == 1) {
            isPrime = false;
        }
        else {
            for (int i = 2; i <= n / 2; ++i) {
                if (n % i == 0) {
                    isPrime = false;
                    break;
                }
            }
        }
        return isPrime;
    }

    public static void main(String args[]) {

        System.out.println("Enter a positive integer: ");
        int n;
        Scanner sc = new Scanner(System.in);
        n=sc.nextInt();
        prime obj= new prime();
        for(int j=2;j<=n;j++)
        {
            if (obj.primee(j))
                System.out.print(j+" ");
        }

    }
}
```

Output:



```
Problems @ Javadoc Declaration Console
<terminated> prime [Java Application] C:\Users\deva\.p2\pool\plugins\org.eclipse.j
Enter a positive integer:
50
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47
```

14.

```
package assignment2;

import java.util.Scanner;

public class reverse {

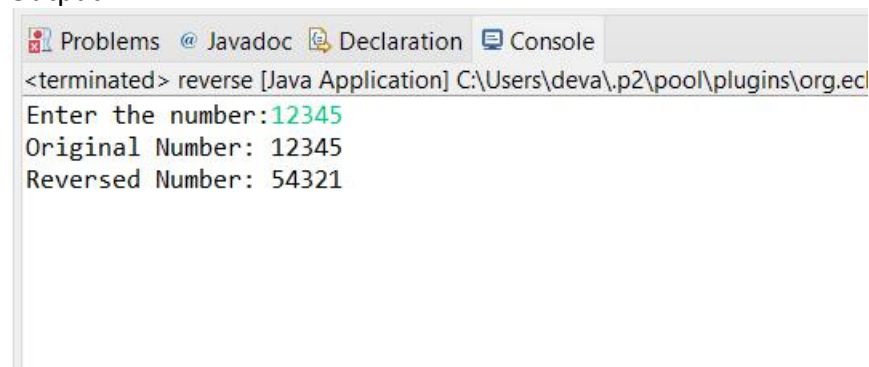
    public static void main(String[] args) {

        int num , reversed = 0;
        System.out.print("Enter the number:");
        Scanner sc = new Scanner(System.in);
        num=sc.nextInt();
        System.out.println("Original Number: " + num);
        while(num != 0) {
            int digit = num % 10;
            reversed = reversed * 10 + digit;
            num /= 10;
        }

        System.out.println("Reversed Number: " +
reversed);
    }

}
```

Output:



```
Problems @ Javadoc Declaration Console
<terminated> reverse [Java Application] C:\Users\deva\.p2\pool\plugins\org.ec
Enter the number:12345
Original Number: 12345
Reversed Number: 54321
```