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");
	}
}
}
```

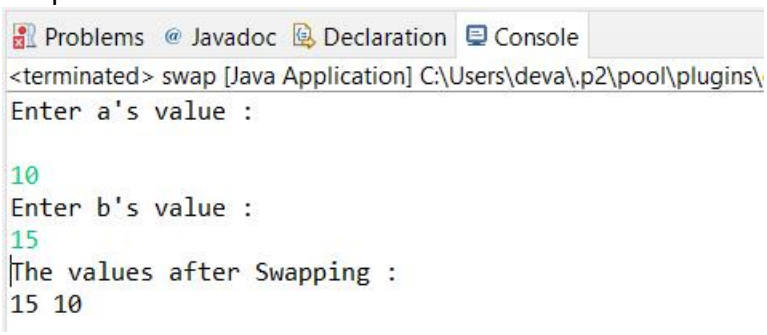
Output

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:

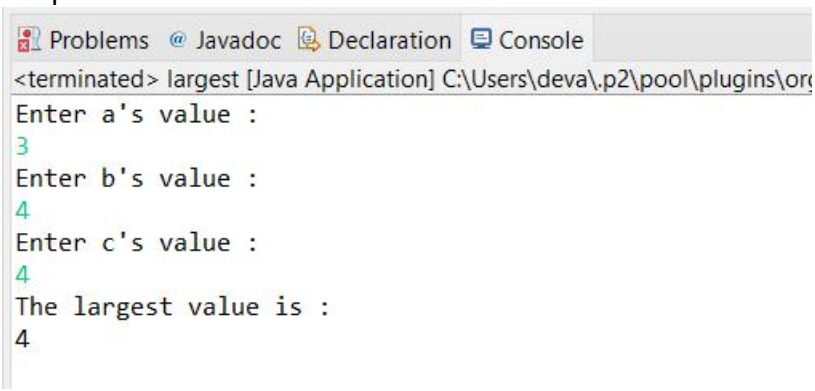


3.

```
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:



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:

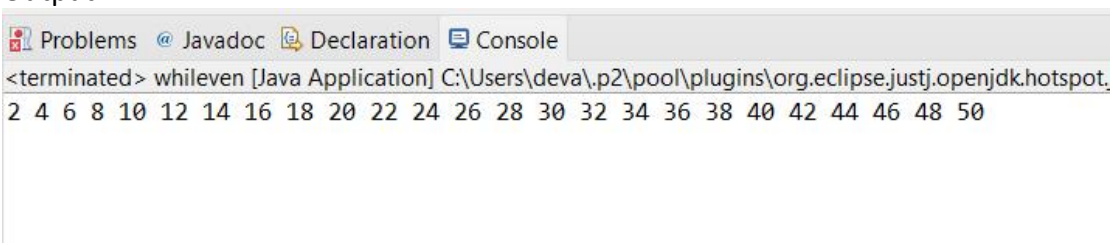
```
<terminated> character [Java Application] C:\Users\deva\.p2
Enter a's value :

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++;
      }
}
```

```
}
```

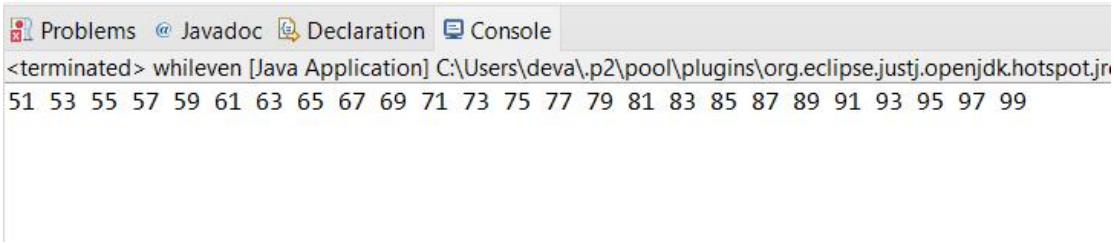
Output:



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:



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
```

```java
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
```

```java
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:

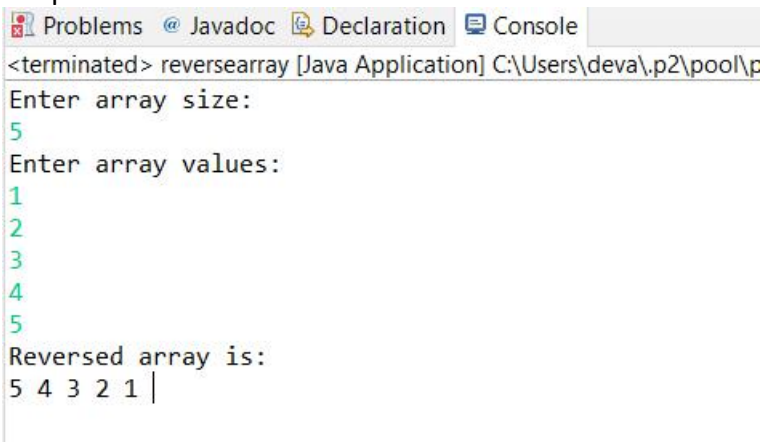
```
<terminated> firstpattern [Java Application] C:\Users\d
Enter the no of Rows:

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:



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:

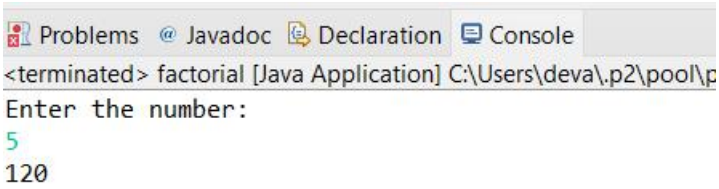
```
<terminated> swapadj [Java Application] C:\Users\deva\.p2\pool\plugins
Enter array size :
6
Enter array numbers:1
2
3
4
5
6
After swap list are: 2 1 4 3 6 5
```

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));
     }
```

}

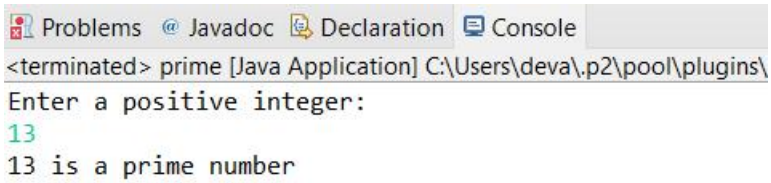
Output:



12.

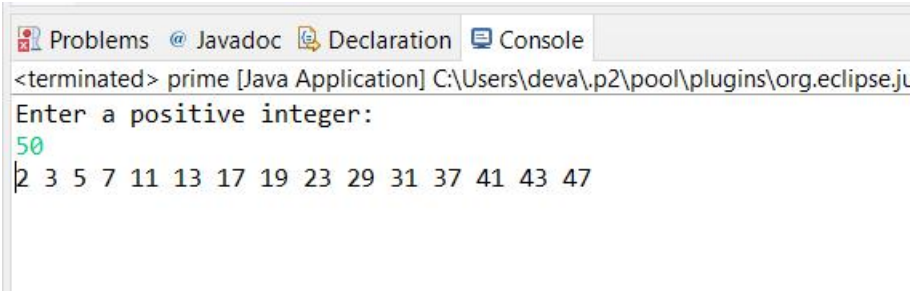
```
package assignment2;

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:



13.
```java
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:



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: