OOPM ASSIGNMENT

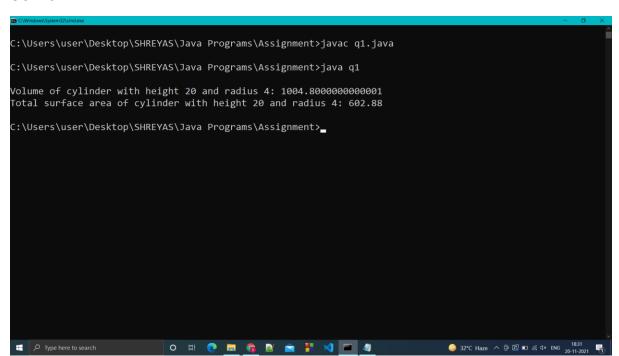
Name: Shreyas Sawant Class: D7A Roll No. 55

Q.1 Write a program to calculate the total surface area and volume of the cylinder . Make use of keyword final.

CODE:

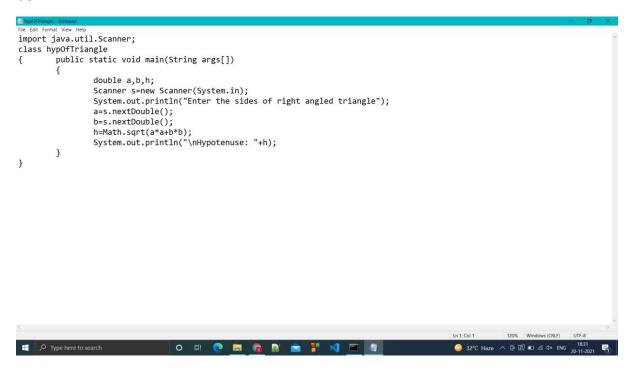
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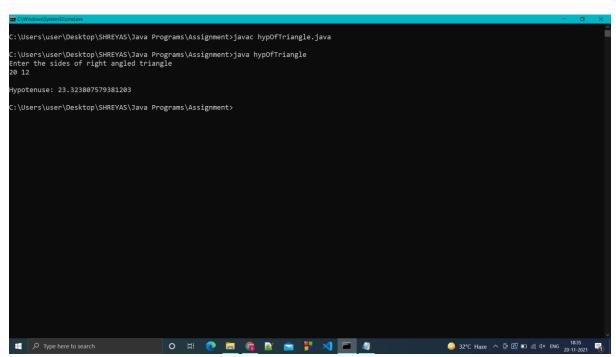
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Q.2 Write a program to calculate the hypotenuse of a right angled triangle when other sides of the triangle are given.

CODE:

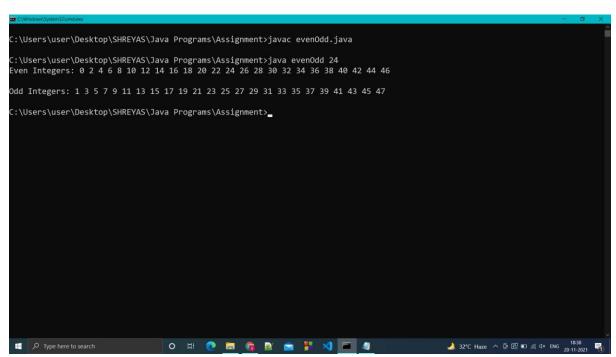




Q.3 Write a program to print first n even and odd nos. take the value of n from the keyboard via command line argument.

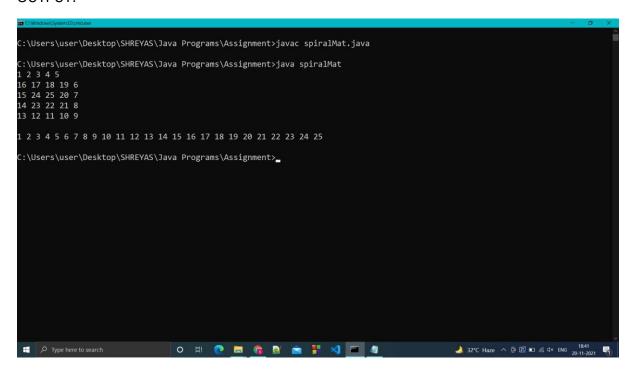
CODE:

```
class evenOdd
       public static void main(String args[])
              int n=Integer.parseInt(args[0]),e=0,o=0;
              System.out.print("Even Integers: ");
              while(e!=n)
                      if(o%2==0)
                             System.out.print(o+ " ");
                             e++;
              e=0;o=0;
              System.out.print("\n \nOdd Integers: ");
              while(e!=n)
                      if(o%2!=0)
                             System.out.print(o+ " ");
                     0++;
              System.out.println(); } }
                                                                                    Type here to search
```

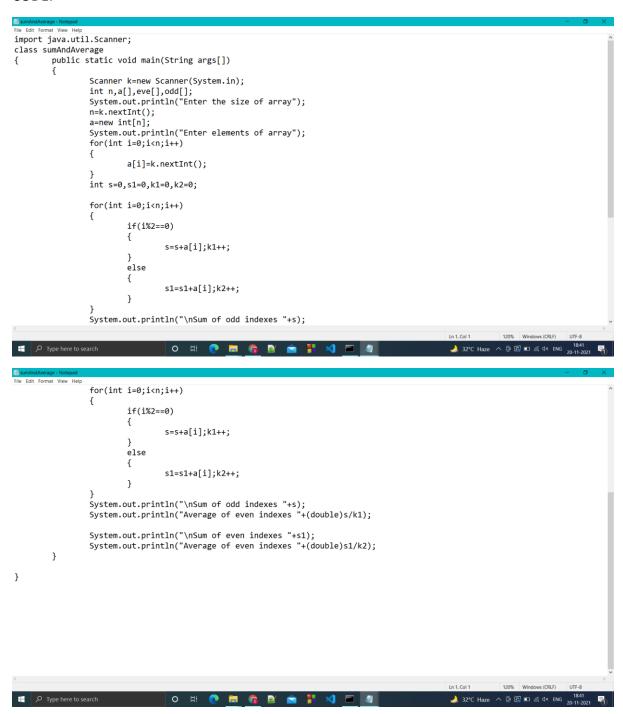


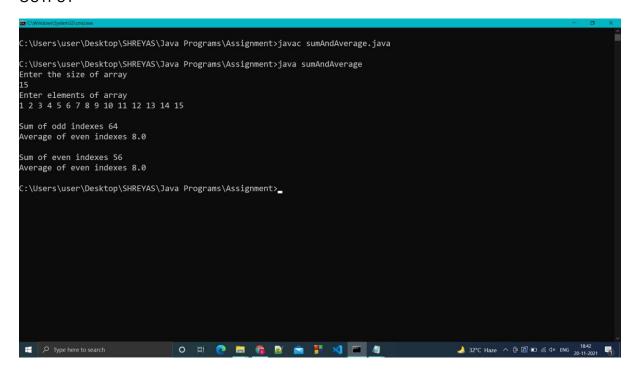
Q.4 Write a program to print the spiral Matrix of order 5:

```
import java.util.*;
class spiralMat
      public static void main(String args[])
              Scanner s=new Scanner(System.in);
              int n=5;
int a[][]={{1,2,3,4,5},{16,17,18,19,6},{15,24,25,20,7},{14,23,22,21,8},{13,12,11,10,9}};
              int i, k=0, l=0, m=5;
              for(i=0;i<5;i++)
                     for(int j=0;j<5;j++)
                            System.out.print(a[i][j]+" ");
                     System.out.println();
              System.out.println();
              while (k<m && 1<n)
                     for (i=1; i<n; ++i)
                            System.out.print(a[k][i]+" ");
                     k++;
                     for (i=k; i< m; ++i)
                                                                                   O # 🙋 🔚 😘 📓 💼 👫 刘 🖾 🐠
                     for (i=k; i< m; ++i)
                     {
                            System.out.print(a[i][n-1]+" ");
                     }
                     n--;
                     if (k<m)
                     {
                            for (i=n-1; i>=1; --i)
                                System.out.print(a[m-1][i]+" ");
                     if (l<n)
                            for (i=m-1; i>=k; --i)
                                   System.out.print(a[i][1]+" ");
                            }
                     1++;
              System.out.println();
```

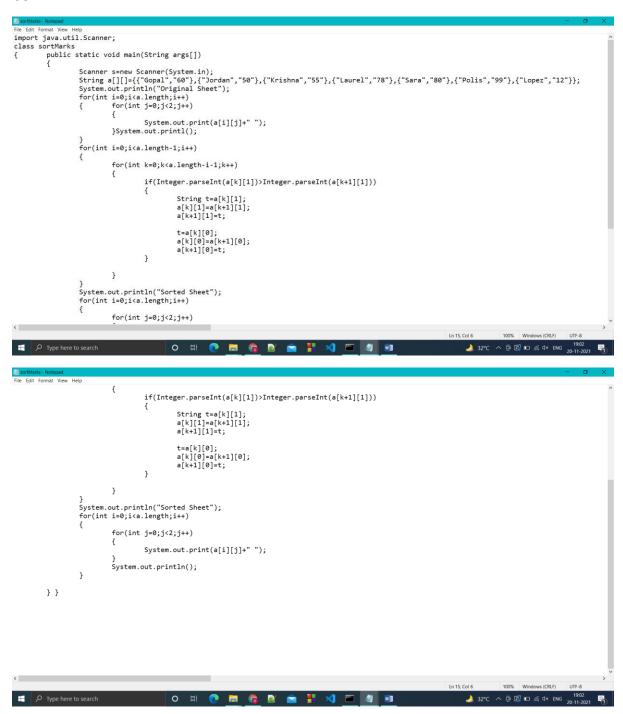


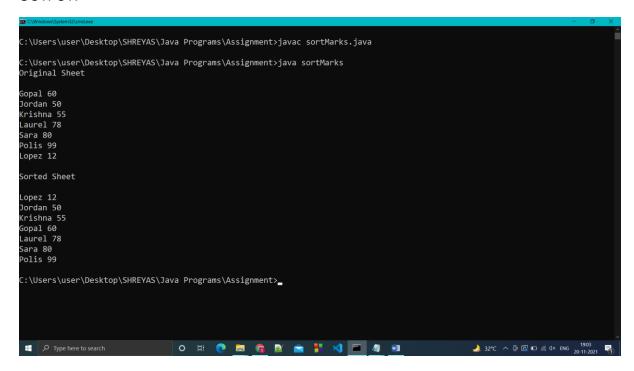
Q.5 Write a program to find sum and average of numbers on even and odd indexes in the array entered by the user.





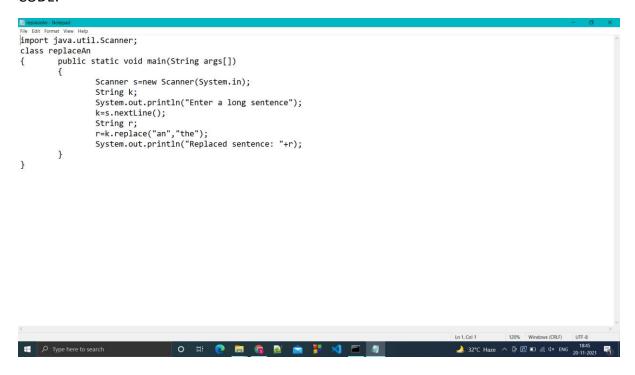
Q.6 Write a pogram to sort the list of students on the basis of their marks.

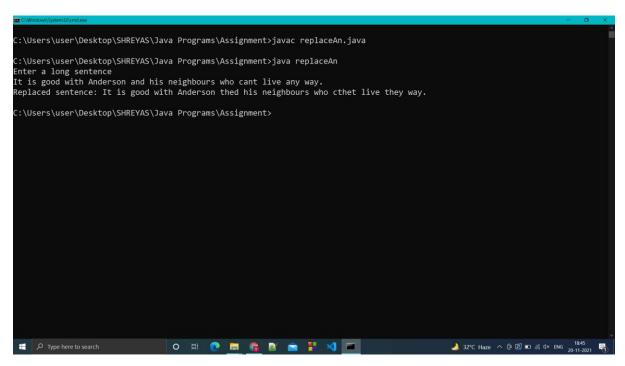




Q.7 Write a program to create a long string and replace all the occurrence of 'an' with 'the'.

CODE:





```
Predict the output:
Q.8
        class A{
        A()
        {
        System.out.println("A");
        }
        public class B extends A{
        public static void main(String args[])
        B b1=new B();
        super();
        }
        B()
        System.out.println("B");
        }
        }
        Output:
       Error: super() must be first statement of constructor
```

Q.9 Predict the output:

```
class MySuper
{
  public static void MyMethod()
  {
    System.out.println("Static Method in super class");
  }
  }
  public class Mysub extends Mysuper{
  public static void MyMethod()
  {
    System.out.println("static method in subclass");
  }
  public void MyMethod()
  {
    System.out.println("Non-static method in subclass");
  }
  public static void main(String args[])
  {
    MySuper s=new MySub();
    MyMethod();
  }
}
```

OUPUT:

Error: Mysuper is not defined

Error: public void MyMethod()-> MyMethod() is already defined in class Mysub

Error: MySub is not defined

Q.10 Write a program to calculate volume of cube, cuboid and sphere using interfaces.



