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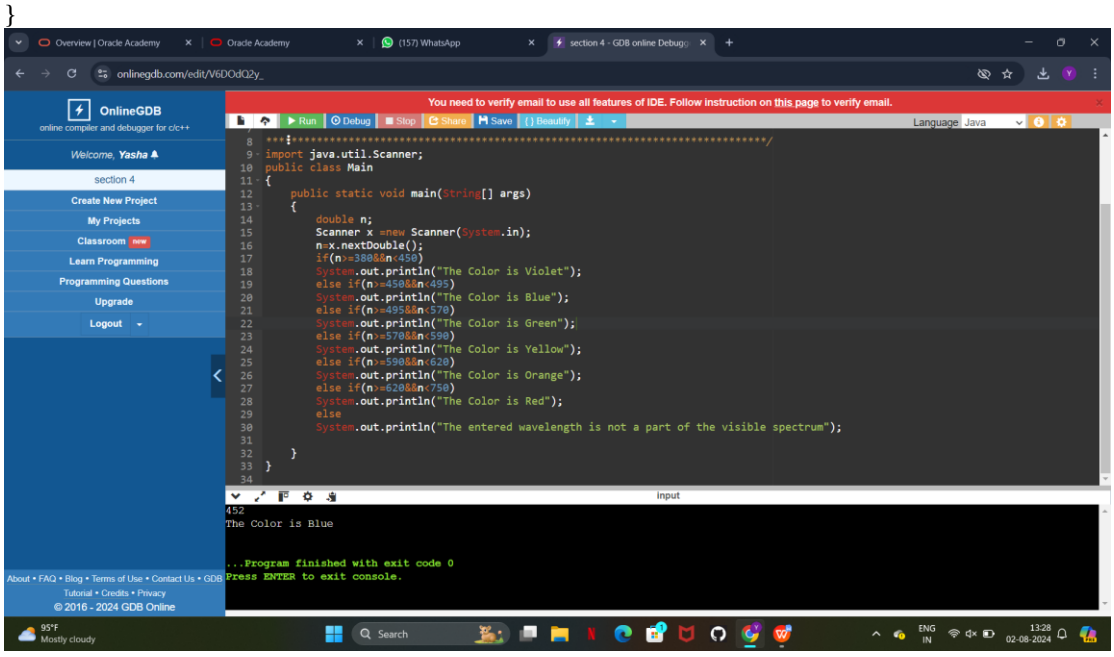
PRACTICE PROGRAM SECTION 5 :

1) WAVELENGTH :

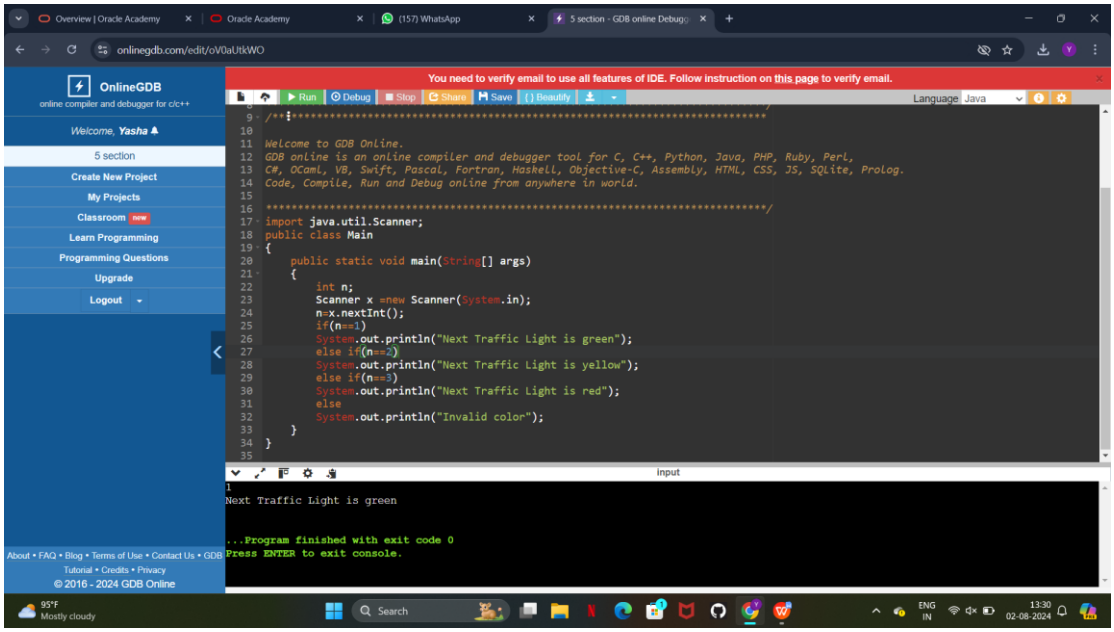
```
import java.util.Scanner;
public class Main
{
	public static void main(String[] args)
	{
	   double n;
	   Scanner x =new Scanner(System.in);
	   n=x.nextDouble();
	   if(n>=380&&n<450)
	   System.out.println("The Color is Violet");
	   else if(n>=450&&n<495)
	   System.out.println("The Color is Blue");
	   else if(n>=495&&n<570)
	   System.out.println("The Color is Green");
	   else if(n>=570&&n<590)
	   System.out.println("The Color is Yellow");
	   else if(n>=590&&n<620)
	   System.out.println("The Color is Orange");
	   else if(n>=620&&n<750)
	   System.out.println("The Color is Red");
	   else
	   System.out.println("The entered wavelength is not a part of the visible spectrum");

	}
}
```



2) TRAFFIC SIGNAL IF CONDITION :

```
import java.util.Scanner;
public class Main
{
```

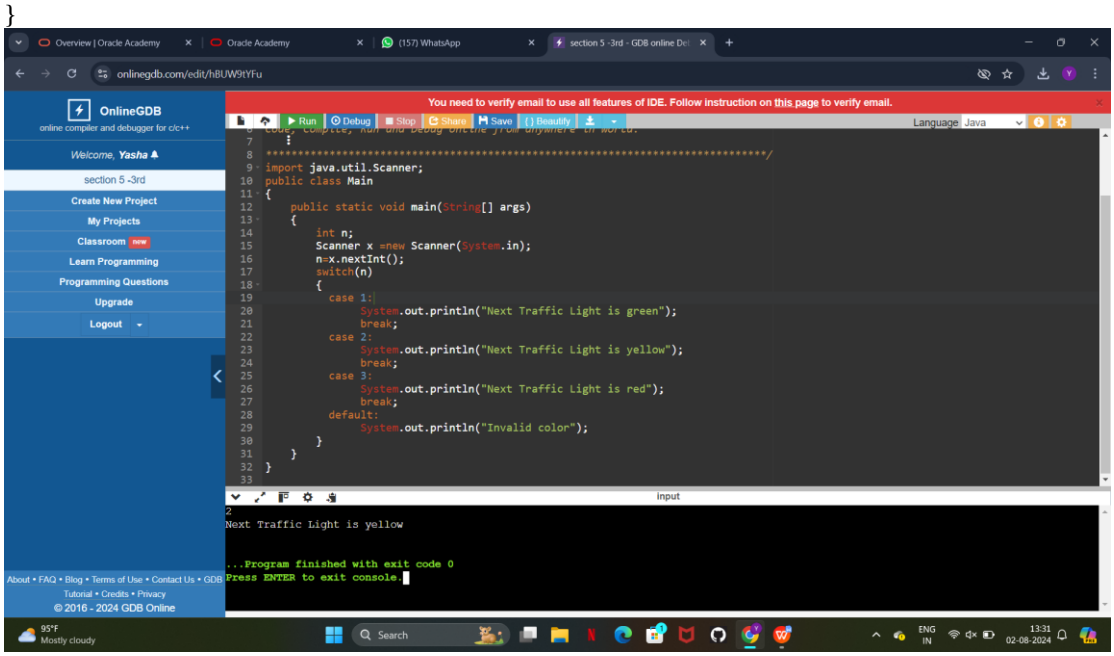
```
        public static void main(String[] args)
        {
           int n;
           Scanner x =new Scanner(System.in);
           n=x.nextInt();
           if(n==1)
           System.out.println("Next Traffic Light is green");
           else if(n==2)
           System.out.println("Next Traffic Light is yellow");
           else if(n==3)
           System.out.println("Next Traffic Light is red");
           else
           System.out.println("Invalid color");
        }
}
```



3) TRAFFIC SIGNAL SWITCH CASE :

```
import java.util.Scanner;
public class Main
{
        public static void main(String[] args)
        {
           int n;
           Scanner x =new Scanner(System.in);
           n=x.nextInt();
           switch(n)
           {
             case 1:
                 System.out.println("Next Traffic Light is green");
                 break;
             case 2:
                 System.out.println("Next Traffic Light is yellow");
                 break;
             case 3:
                 System.out.println("Next Traffic Light is red");
                 break;
             default:
```

```
                System.out.println("Invalid color");
            }
        }
}
```

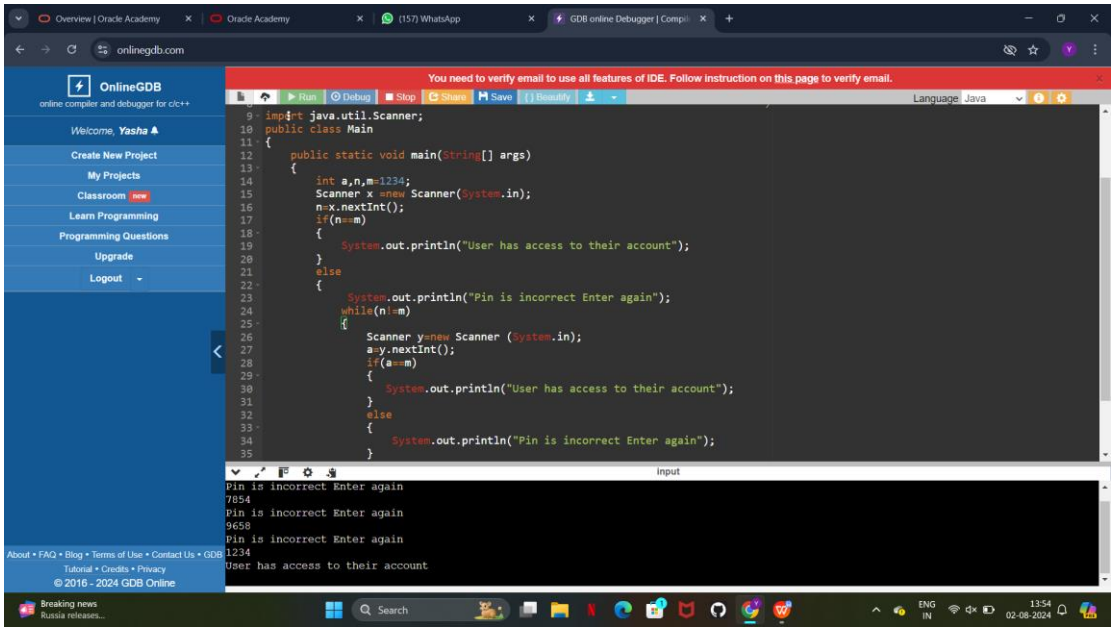


SECTION 6 :

1) ATM PIN :

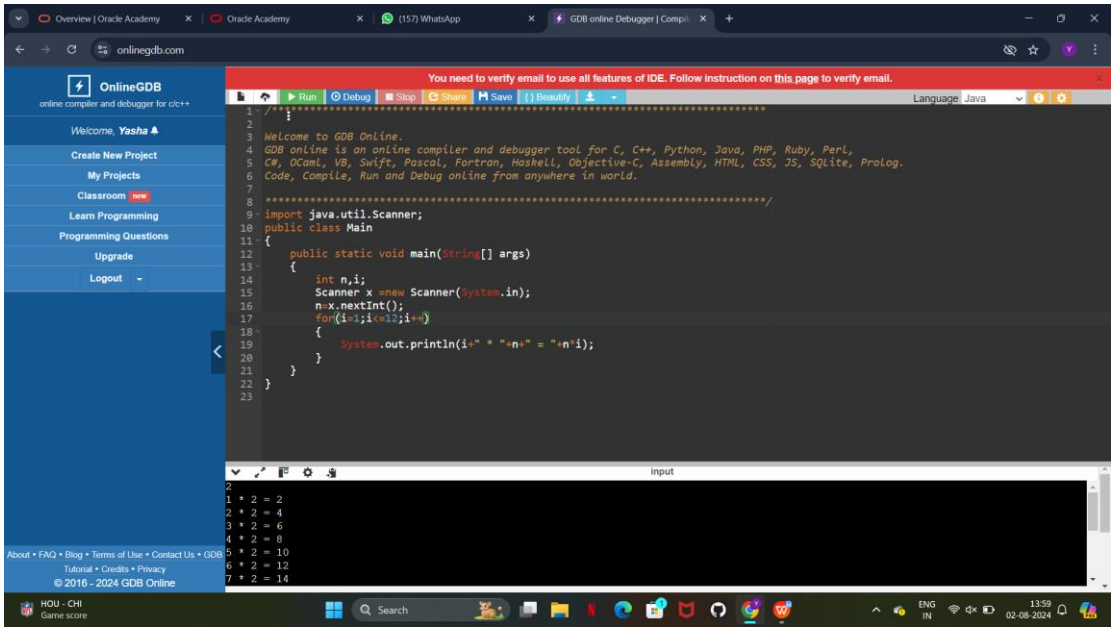
```
import java.util.Scanner;
public class Main
{
        public static void main(String[] args)
        {
           int a,n,m=1234;
           Scanner x =new Scanner(System.in);
           n=x.nextInt();
           if(n==m)
           {
              System.out.println("User has access to their account");
           }
           else
           {
              System.out.println("Pin is incorrect Enter again");
             while(n!=m)
             {
                Scanner y=new Scanner (System.in);
                a=y.nextInt();
                if(a==m)
                {
                  System.out.println("User has access to their account");
                }
                else
                {
                   System.out.println("Pin is incorrect Enter again");
                }

             }
```

```
        }
    }
}
```



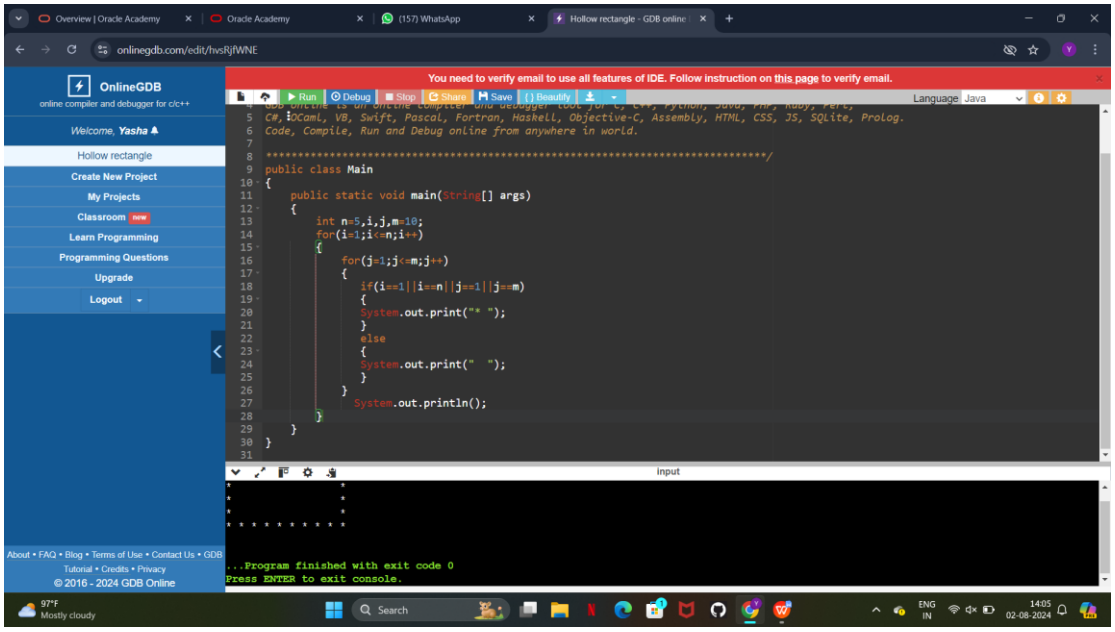
2) MULTIPLICATION TABLE :

```
import java.util.Scanner;
public class Main
{
        public static void main(String[] args)
        {
           int n,i;
           Scanner x =new Scanner(System.in);
           n=x.nextInt();
           for(i=1;i<=12;i++)
           {
              System.out.println(i+" * "+n+" = "+n*i);
           }
        }
}
```



3) HOLLOW RECTANGLE :

```
public class Main
{
        public static void main(String[] args)
        {
           int n=5,i,j,m=10;
           for(i=1;i<=n;i++)
      {
        for(j=1;j<=m;j++)
        {
          if(i==1||i==n||j==1||j==m)
          {
          System.out.print("* ");
          }
          else
          {
          System.out.print("  ");
          }
        }
         System.out.println();
      }
   }
}
```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Language Java
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Code, Compile, Run and Debug online from anywhere in world.
public class Main
{
public static void main(String[] args)
{
int n=5,i,j,m=10;
for(i=1;i<=n;i++)
{
for(j=1;j<=m;j++)
{
if(i==1||i==n||j==1||j==m)
{
System.out.print("* ");
}
else
{
System.out.print(" ");
}
}
System.out.println();
}
}
}
input
...Program finished with exit code 0
Press ENTER to exit console.
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