

1) Write a program to print the following pattern

Sample Input:

Enter the number to be printed: 1

Max Number of time printed: 3

1

11

111

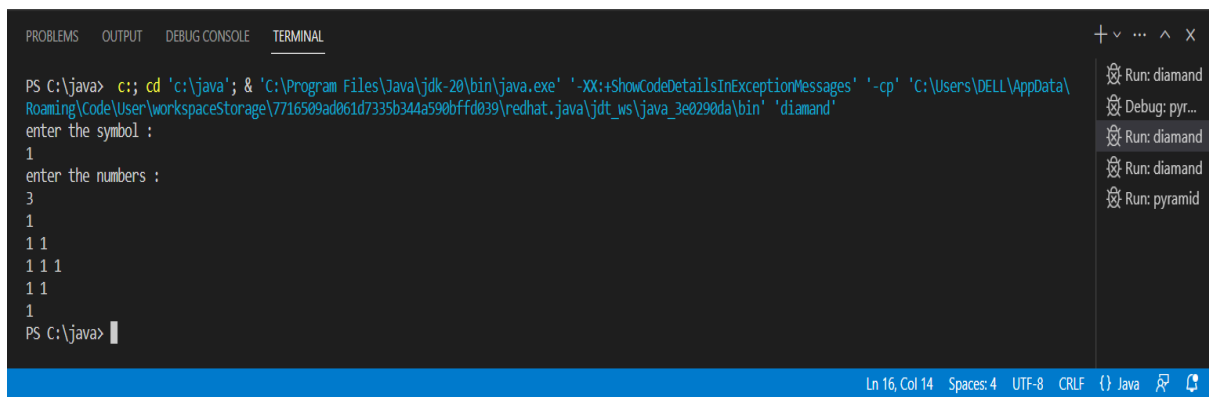
11

1

PROGRAM :-

```
import java.util.*;
public class diamand {
    public static void main(String[] args) {
        int i,j,n;
        String h;
        Scanner v = new Scanner(System.in);
        System.out.println("enter the symbol : ");
        h = v.nextLine();
        System.out.println("enter the numbers :");
        n = v.nextInt();
        for(i=1;i<=n;i++)
        {
            for(j=1;j<=i;j++)
            {
                System.out.print(h+" ");
            }
            System.out.println();
        }
        for(i=n-1;i>=1;i--)
        {
            for(j=1;j<=i;j++)
            {
                System.out.print(h+" ");
            }
            System.out.println();
        }
    }
}
```

OUT PUT :-



```
PS C:\java> cd 'c:\java'; & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'diamand'
enter the symbol :
1
enter the numbers :
3
1
1 1
1 1 1
1 1
1
PS C:\java>
```

2) Write a program to print the following pattern

Sample Input:

Enter the Character to be printed: %

Max Number of time printed: 3

%

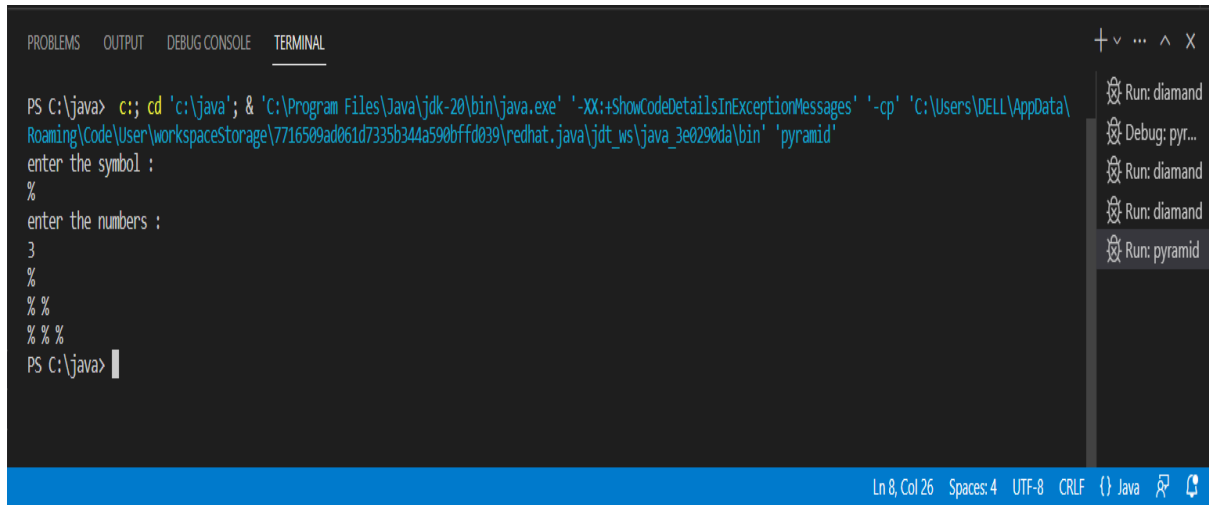
% %

% % %

PROGRAM :-

```
import java.util.*;
public class pyramid {
    public static void main(String[] args) {
        int i,j,n;
        String h;
        Scanner v = new Scanner(System.in);
        System.out.println("enter the symbol : ");
        h = v.nextLine();
        System.out.println("enter the numbers :");
        n = v.nextInt();
        for(i=0;i<n;i++)
        {
            for(j=0;j<=i;j++)
            {
                System.out.print(h+" ");
            }
            System.out.println();
        }
    }
}
```

OUT PUT :-



```
PS C:\java> c:: cd 'c:\java'; & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'pyramid'
enter the symbol :
%
enter the numbers :
3
%
% %
% % %
PS C:\java>
```

3) Write a program to print Right Triangle Star Pattern

Sample Input:: n = 5

Output:

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

PROGRAM :-

```
import java.util.*;
public class rightangle {
    public static void main(String[] args) {
        int i,j,n;
        Scanner v = new Scanner(System.in);
        System.out.println("enter the numbers :");
        n = v.nextInt();
        for(i=0;i<n;i++)
```

```

    {
        for(j=0;j<=i;j++)
        {
            System.out.print("* ");
        }
        System.out.println();
    }
}

```

OUTPUT :-

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\java> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'rightangle'
enter the numbers :
5
*
* *
* * *
* * * *
* * * * *
PS C:\java>

```

4) Write a program to print the below pattern?

```

1
1 1
1 2 1
1 3 3 1
1 4 6 4 1

```

PROGRAM :-

```

import java.util.*;
public class pascal {
    public static void main(String[] args)
    {
        int row, i, j, space, num;
        Scanner sc=new Scanner(System.in);
    }
}

```

```

        System.out.print("Enter no. of rows: ");
        if(!sc.hasNextInt())
        {
            System.out.println("Invalid Enter only integers");
            return;
        }
        row=sc.nextInt();
        for(i=0; i<row; i++)
        {
            for(space=row; space>i; space--)
            {
                System.out.print(" ");
            }
            num=1;
            for(j=0; j<=i; j++)
            {
                System.out.print(num+" ");
                num = num*(i-j)/(j+1);
            }
            System.out.println();
        }
    }
}

```

OUTPUT :-

The screenshot shows a Java IDE with a terminal window. The terminal output displays the program's execution, including the prompt for the number of rows and the resulting Pascal's triangle pattern. The pattern consists of 5 rows of numbers, where each row starts with 1 and the numbers are calculated based on the previous row's values.

```

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PS C:\java> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'pascal'
Enter no. of rows: 5
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
PS C:\java>

```

5) Write a program to print the below pattern

```

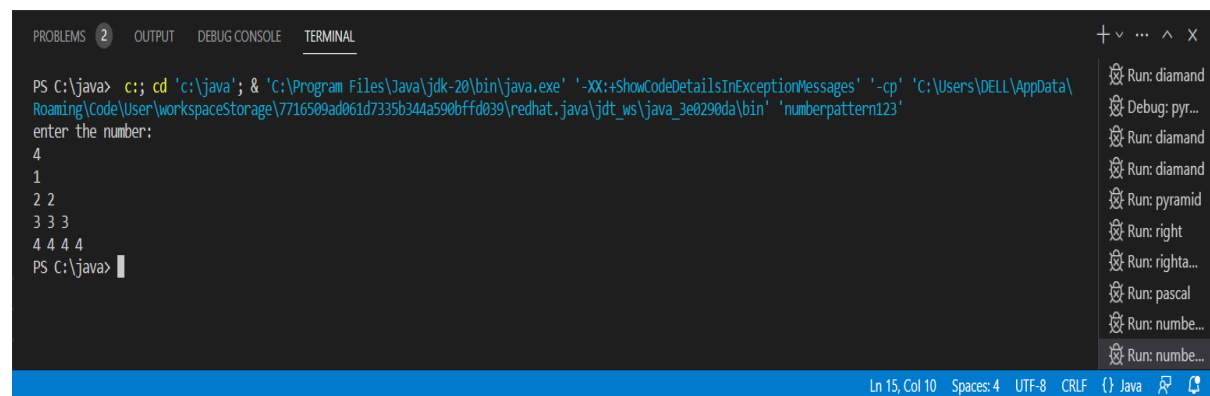
1
2 2
3 3 3
4 4 4 4

```

PROGRAM :-

```
import java.util.*;
public class numberpattern123 {
    public static void main(String[] args) {
        int i,j,n;
        Scanner v = new Scanner(System.in);
        System.out.println("enter the number: ");
        n = v.nextInt();
        for (i=1;i<=n;i++)
        {
            for (j=0;j<i;j++)
            {
                System.out.print(i+ " ");
            }
            System.out.println();
        }
    }
}
```

OUTPUT :-



The screenshot shows a terminal window with the following content:

```
PS C:\java> cd 'c:\java'; & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdk_ws\java_3e0290da\bin' 'numberpattern123'
enter the number:
4
1
2 2
3 3 3
4 4 4 4
PS C:\java>
```

On the right side of the terminal, there is a list of run configurations:

- Run: diamond
- Debug: pyr...
- Run: diamond
- Run: diamond
- Run: pyramid
- Run: right
- Run: righta...
- Run: pascal
- Run: numbe...
- Run: numbe...

The status bar at the bottom indicates: Ln 15, Col 10 Spaces: 4 UTF-8 CRLF {} Java

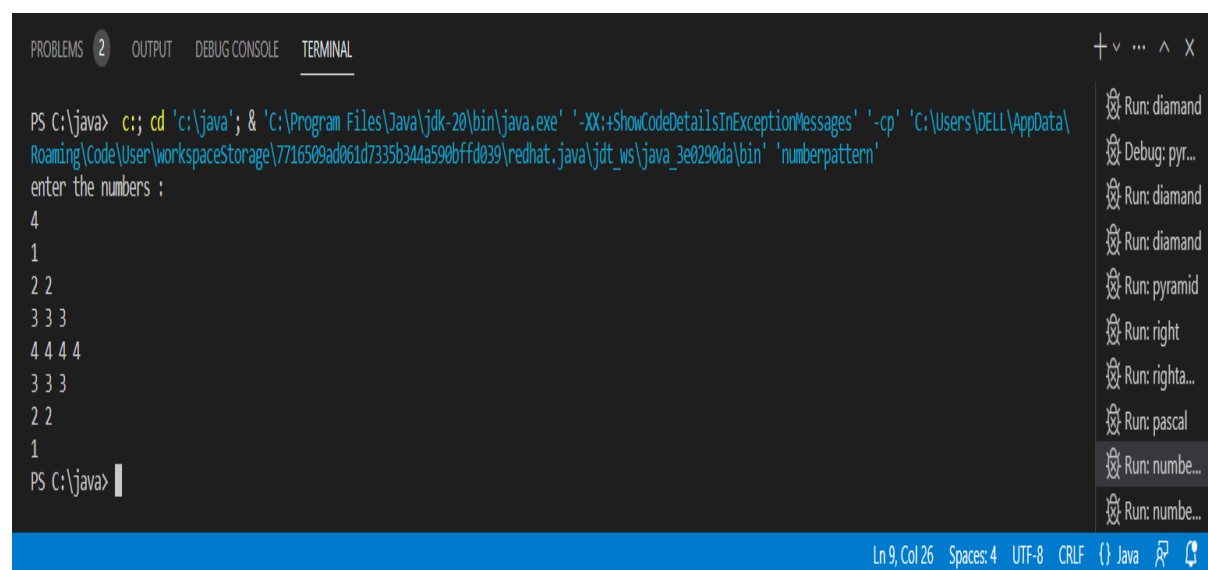
6) Write a program to print the below pattern

```
1
2 2
3 3 3
4 4 4 4
3 3 3
2 2
1
```

PROGRAM :-

```
import java.util.*;
public class numberpattern {
    public static void main(String[] args) {
        int i,j,n;
        String h;
        Scanner v = new Scanner(System.in);
        System.out.println("enter the numbers :");
        n = v.nextInt();
        for(i=1;i<=n;i++)
        {
            for(j=1;j<=i;j++)
            {
                System.out.print(i+" ");
            }
            System.out.println();
        }
        for(i=n-1;i>=1;i--)
        {
            for(j=1;j<=i;j++)
            {
                System.out.print(i+" ");
            }
            System.out.println();
        }
    }
}
```

OUT PUT :-



```
PS C:\java> c:: cd 'c:\java'; & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'numberpattern'
enter the numbers :
4
1
2 2
3 3 3
4 4 4 4
3 3 3
2 2
1
```

PS C:\java> |

Run: diamand  
Debug: pyr...  
Run: diamand  
Run: diamand  
Run: pyramid  
Run: right  
Run: righta...  
Run: pascal  
Run: numbe...  
Run: numbe...

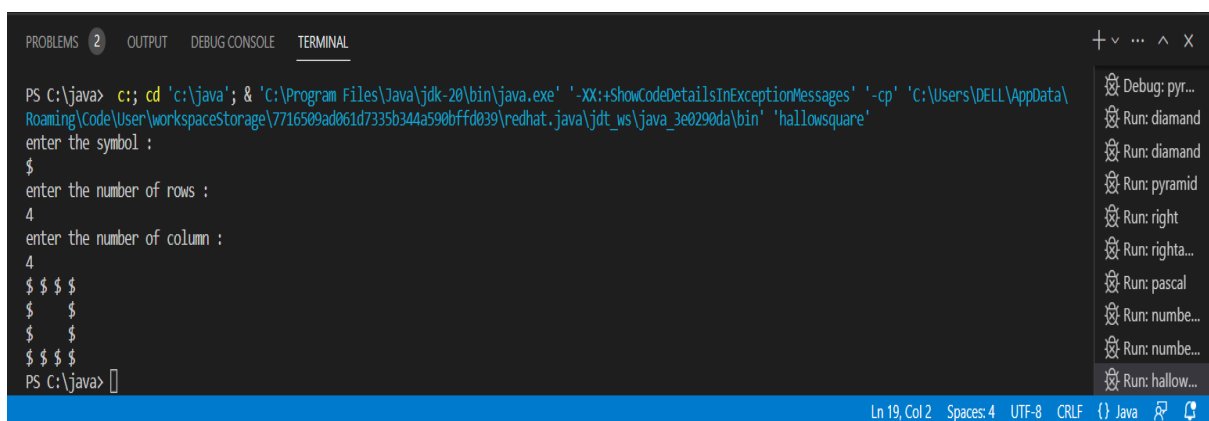
Ln 9, Col 26 Spaces: 4 UTF-8 CRLF {} Java

7) Write a program to print hollow Square Dollar pattern?

PROGRAM :-

```
import java.util.*;
public class hallowsquare {
public static void main(String[] args)
{
int m,n,i,j;
String s;
Scanner v = new Scanner (System.in);
System.out.println("enter the symbol :");
s = v.nextLine();
System.out.println("enter the number of rows :");
m = v.nextInt();
System.out.println("enter the number of column :");
n = v.nextInt();
for (i=1;i<m+1;i++)
{
for (j=1;j<n+1;j++)
{
if(i == 1 || i == m || j == 1 || j == n)
{
System.out.print(s+" ");
}
else
{
System.out.print(" ");
}
}
System.out.println();
}
}
```

OUT PUT :-



```
PS C:\java> c:: cd 'c:\java'; & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'hallowsquare'
enter the symbol :
$
enter the number of rows :
4
enter the number of column :
4
$ $ $ $
$   $
$   $
$ $ $ $
PS C:\java>
```

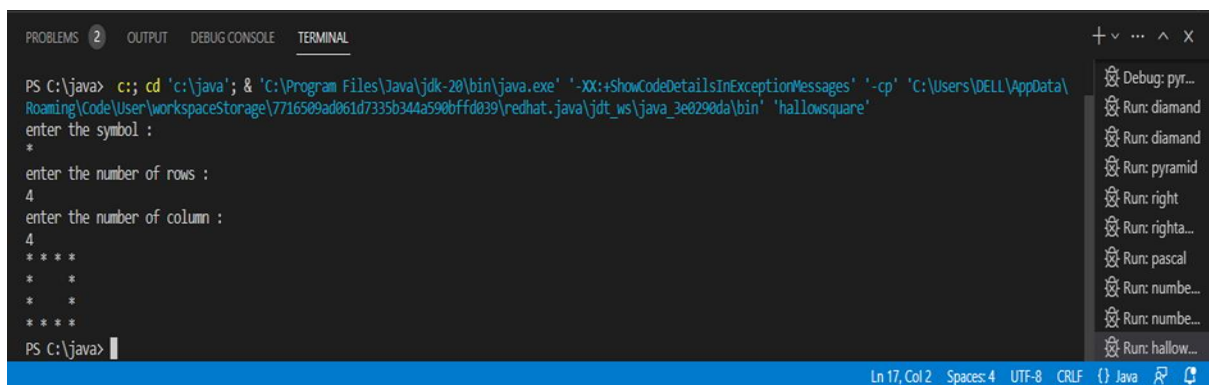


8) Write a program to print hollow square symbol pattern?

PROGRAM :-

```
import java.util.*;
public class hallowsquare {
public static void main(String[] args)
{
int m,n,i,j;
String s;
Scanner v = new Scanner (System.in);
System.out.println("enter the symbol :");
s = v.nextLine();
System.out.println("enter the number of rows :");
m = v.nextInt();
System.out.println("enter the number of column :");
n = v.nextInt();
for (i=1;i<m+1;i++)
{
for (j=1;j<n+1;j++)
{
if(i == 1 || i == m || j == 1 || j == n)
{
System.out.print(s+" ");
}
else
{
System.out.print(" ");
}
}
System.out.println();
}
}
```

OUTPUT :-



The screenshot shows a Java IDE with a terminal window. The terminal output shows the program running and printing a hollow square pattern. The pattern is 4 rows by 4 columns. The first and last rows are filled with asterisks, and the first and last columns are filled with asterisks. The inner 2x2 area is empty.

```
PS C:\java> c:: cd 'c:\java'; & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'hallowsquare'
enter the symbol :
*
enter the number of rows :
4
enter the number of column :
4
* * * *
*   *
*   *
*   *
* * * *
PS C:\java>
```

9) Given an integer x, return true if x is a Palindrome , and false otherwise.

Example 1:

Input: x = 121

Output: true

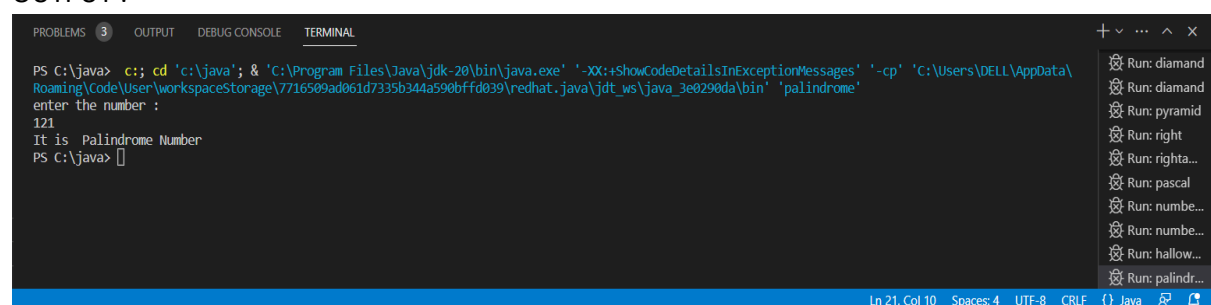
Explanation: 121 reads as 121 from left to right and from right to left.

PROGRAM :-

```
import java.util.*;
public class palindrome
{
    public static void main(String[] args) {
        int num,r,reversed=0;
        Scanner v = new Scanner(System.in);
        System.out.println("enter the number :");
        num = v.nextInt();
        int original = num;
        while(num!=0)
        {
            r = num%10;
            reversed = reversed*10+r;
            num/=10;
        }

        if(original==reversed)
        {
            System.out.println("It is Palindrome Number");
        }
        else
        {
            System.out.println("It is not Palindrome Number");
        }
    }
}
```

OUTPUT :-



```
PS C:\java> cd 'c:\java'; & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdk_ws\java_3e0290da\bin' 'palindrome'
enter the number :
121
It is Palindrome Number
PS C:\java>
```

Run: diamond  
Run: diamond  
Run: pyramid  
Run: right  
Run: righta...  
Run: pascal  
Run: numbe...  
Run: numbe...  
Run: hallow...  
Run: palindr...

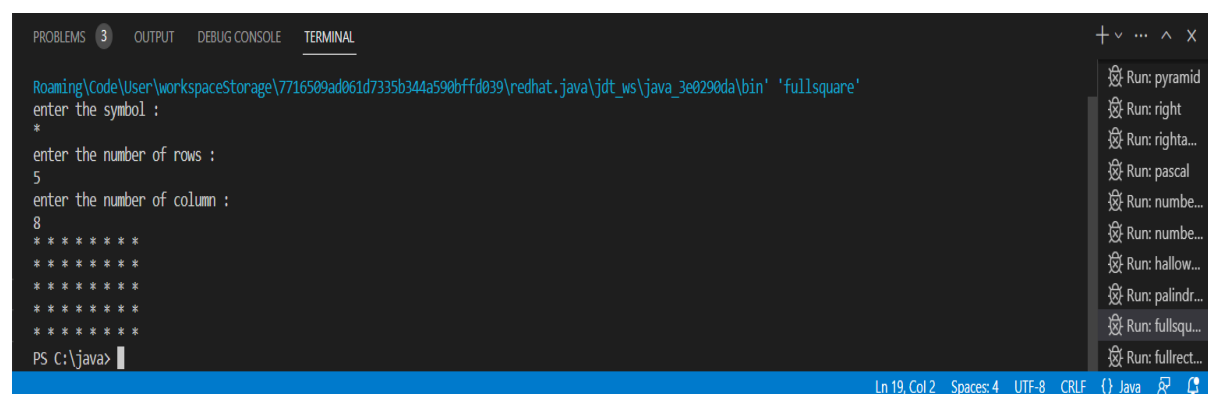
Ln 21, Col 10 Spaces: 4 UTF-8 CRLF {} Java

10) Write a program to print rectangle symbol pattern. Get the symbol as input from user

PROGRAM :-

```
import java.util.*;
public class fullrectangle {
public static void main(String[] args)
{
int m,n,i,j;
String s;
Scanner v = new Scanner (System.in);
System.out.println("enter the symbol :");
s = v.nextLine();
System.out.println("enter the number of rows :");
m = v.nextInt();
System.out.println("enter the number of column :");
n = v.nextInt();
for (i=1;i<m+1;i++)
{
for (j=1;j<n+1;j++)
{
System.out.print(s+" ");
}
System.out.println();
}
}
}
```

OUTPUT :-



```
Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'fullsquare'
enter the symbol :
*
enter the number of rows :
5
enter the number of column :
8
*****
*****
*****
*****
*****
PS C:\java>
```

11) Write a program for matrix addition?

Sample Input:

Mat1 = 1 2

5 3

Mat2 = 2 3

4 1

Sample Output:

Mat Sum = 3 5

9 4

PROGRAM :-

```
import java.util.Scanner;
public class matrixaddition {
    public static void main(String[] args) {
        int i,j;
        Scanner s = new Scanner(System.in);
        System.out.println("Enter no of rows:");
        i = s.nextInt();
        System.out.println("Enter no of columns:");
        j = s.nextInt();

        int a[][] = new int[i][j];
        int b[][] = new int[i][j];
        int c[][] = new int[i][j];


        System.out.println("Mat1 =");
        for(i=0;i<2;i++)
        {
            for(j=0;j<2;j++)
            {
                a[i][j] = s.nextInt();
            }
        }
        System.out.println("Mat2 =");
        for(i=0;i<2;i++)
        {
            for(j=0;j<2;j++)
            {
                b[i][j] = s.nextInt();
            }
        }
    }
}
```

```

    }
    System.out.println("Mat Sum =");
    for(i=0;i<2;i++)
    {
        for(j=0;j<2;j++)
        {
            c[i][j] = a[i][j]+b[i][j];
            System.out.print(c[i][j]+" ");
        }
        System.out.println();
    }
}

```

OUTPUT :-



```

PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL
Run: matrixaddition + - [ ] ... ^ X

1
2
5
3
Mat2 =
2
3
4
1
Mat Sum =
3 5
9 4
PS C:\java>
Ln 21, Col 16 Spaces: 4 UTF-8 CRLF {} Java

```

12) Write a program to print inverted pyramid pattern.

Input: no of rows: 3

Output

```

*****
***
*

```

PROGRAM :-

```

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

```

```

    {
        int rows;
        Scanner v = new Scanner(System.in);
        System.out.println("enter the number :");
        rows = v.nextInt();
        for (int i = rows; i >= 1; i--) {
            for (int j = 1; j <= rows-i; j++)
            {
                System.out.print(" ");
            }
            for (int k = 1; k <= 2*i-1; k++)
            {
                System.out.print("* ");
            }
            System.out.println();
        }
    }
}

```

OUTPUT :-

```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL
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PS C:\java> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'invertedtriangle'
enter the number :
3
* * * *
* * *
*
PS C:\java>

```

13) Write a program to print the below pattern

```

1
2 2
3 3 3
4 4 4 4

```

PROGRAM :-

```

import java.util.*;
public class numpattern1 {
public static void main(String[] args)

```

```

{
int i, j, rows;
Scanner sc = new Scanner(System.in);
System.out.print("Enter the number of rows you want to print: ");
rows = sc.nextInt();
for (i = 1; i <= rows; i++)
{
for (j = 1; j <= i; j++)
{
System.out.print(i+" ");
}
System.out.println();
}
}
}
}

```

OUTPUT :-

```

PS C:\java> cd 'c:\java'; & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdk_ws\java_3e0290da\bin' 'numpattern1'
Enter the number of rows you want to print: 4
1
2 2
3 3 3
4 4 4 4
PS C:\java>

```

14) Write a program to print the below pattern

```

1
2 2
3 3 3
4 4 4 4
3 3 3
2 2
1

```

PROGRAM :-

```

public class numpattern2 {
public static void main(String[] args)

```

```

{
int i,j;
for(i=1;i<5;i++)
{
for(j=1;j<=i;j++)
{
System.out.print(i+" ");
}
System.out.println();
}
for(i=3;i>0;i--)
{
for(j=i;j>0;j--)
{
System.out.print(i+" ");
}
System.out.println();
}
}
}
}

```

OUTPUT :-

```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\java> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'numpattern2'
1
2 2
3 3 3
4 4 4 4
3 3 3
2 2
1
PS C:\java>

```

15) Write a program to print the below pattern

```

1
4 9
16 25 36
49 64 81 100

```

PROGRAM :-



```
import java.util.*;
public class squarepattern {
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        System.out.println("enter the number :");
        int n=sc.nextInt();
        int a,b,k=1;
        for(a=1;a<n;a++){
            for(b=1;b<=a;b++){
                System.out.print((int)Math.pow((k++),2)+" ");
            }
            System.out.println();
        }
    }
}
```

OUTPUT :-

```
PS C:\java> cd 'c:\java'; & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bfffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'squarepattern'
enter the number :
5
1
4 9
16 25 36
49 64 81 100
PS C:\java>
```

16) Write a program for matrix multiplication?

Sample Input:

Mat1 = 1 2

5 3

Mat2 = 2 3

4 1

Sample Output:

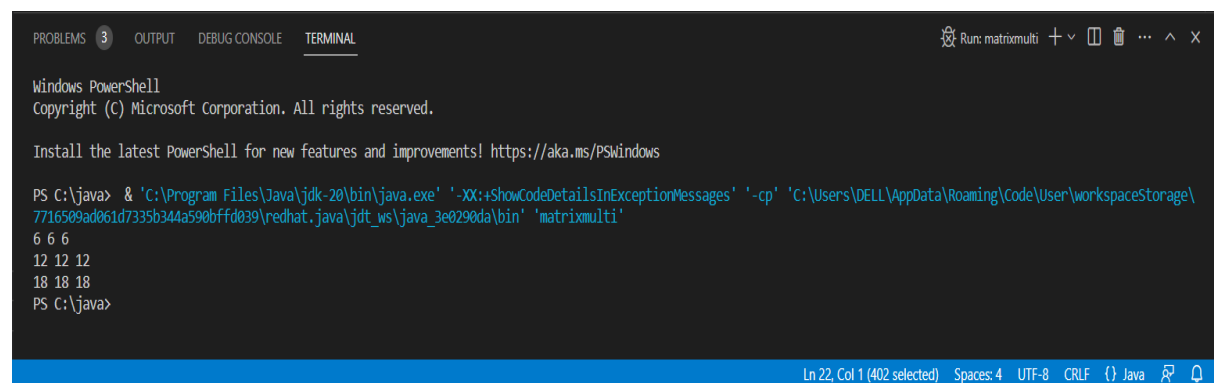
Mat Sum = 10 5

22 18

PROGRAM :-

```
public class matrixmulti {
public static void main(String args[])
{
int a[][]={{1,1,1},{2,2,2},{3,3,3}};
int b[][]={{1,1,1},{2,2,2},{3,3,3}};
int c[][]=new int[3][3];
for(int i=0;i<3;i++)
{
for(int j=0;j<3;j++)
{
c[i][j]=0;
for(int k=0;k<3;k++)
{
c[i][j]+=a[i][k]*b[k][j];
}
System.out.print(c[i][j]+" ");
}
System.out.println();
}
}
}
```

OUTPUT :-



```
PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
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PS C:\java> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'matrixmulti'
6 6 6
12 12 12
18 18 18
PS C:\java>
```

17) Given a non-negative integer x, return the square root of x rounded down to the nearest integer. The returned integer should be non-negative as well.

You must not use any built-in exponent function or operator.

For example, do not use `pow(x, 0.5)` in c++ or `x ** 0.5` in python.

Example 1:

Input: x = 4

Output: 2

Explanation: The square root of 4 is 2, so we return 2.

Example 2:

Input: x = 8

Output: 2

Explanation: The square root of 8 is 2.82842..., and since we round it down to the nearest integer, 2 is returned.

```
class Solution {  
    int mySqrt(int x) {  
  
    }  
}
```

PROGRAM :-

```
public class square {  
    public int mySqrt(int x) {  
        if (x < 2) return x;  
        int end = x / 2;  
        int start = 1;  
        while (start <= end) {  
            int mid = (start + end) / 2;  
            if ((long)mid*mid > x) {  
                end = mid - 1;  
            } else {  
                start = mid + 1;  
            }  
        }  
        return end;  
    }  
}
```

18) Find the Mean, Median, Mode of the array of numbers?

Sample Input::

Array of elements = {16, 18, 27, 16, 23, 21, 19}

Sample Output:

Mean = 20

Median = 19

Mode = 16

PROGRAM :-

```
import java.io.*;
import java.lang.*;
public class meanmedian {

    public static void main(String[] args)
    {
        int[] invalue = new int[]{2,4,5,2,6};
        int num_value=5;
        double tot=0;
        double mean=0;
        for(int i=0; i<num_value; i++)
        {
            tot = tot+invalue[i];
        }
        mean = tot/num_value;
        System.out.println("The mean value is: "+mean);
        double median = 0;
        double mid=0;
        if(num_value%2 == 0)
        {
            int temp=(num_value/2)-1;
            for(int i=0;i<num_value;i++)
            {
                if(temp==i || (temp+1)==i)
                {
                    mid=mid+invalue[i];
                }
            }
            mid=mid/2;
            System.out.println("Median value is: "+mid);
        }
        else
        {
            int temp=(num_value/2);
            for(int i=0;i<num_value;i++)
            {
                if(temp==i)
                {

```

```

mid=invalue[i];
System.out.println("Median value: "+mid);
}
}
}
int i,j,z, tmp, maxCount, modeValue;
int[] tally=new int[num_value];
for(i=0;i<num_value;i++)
{
for(j=0;j<num_value-i;j++)
{
if(j+1!=num_value)
{
if(invalue[j]>invalue[j+1])
{
tmp=invalue[j];
invalue[j]=invalue[j+1];
invalue[j+1]=tmp;
}
}
}
}
for (i = 0; i < num_value; i++)
{
for(z=i+1;z<num_value;z++)
{
if(invalue[i]==invalue[z])
{
tally[i]++;
}
}
}
maxCount = 0;
modeValue = 0;
for (i = 0; i < num_value; i++)
{
if (tally[i] > maxCount)
{
maxCount = tally[i];
modeValue = invalue[i];
}
}
System.out.println("Mode value is :"+modeValue);
}
}

```

OUTPUT :-

PROBLEMS 6 OUTPUT DEBUG CONSOLE TERMINAL

Run: meanmedian + ▾ 🗑️ ⋮ ^ ✕

Windows PowerShell

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```
PS C:\java> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\AppData\Roaming\Code\User\workspaceStorage\7716509ad061d7335b344a590bffd039\redhat.java\jdt_ws\java_3e0290da\bin' 'meanmedian'
```

The mean value is: 3.8

Median value: 5.0

Mode value is :2

PS C:\java>

Ln 23, Col 2 Spaces: 4 UTF-8 CRLF {} Java 🔍 🔔