

Answer-3

The screenshot shows the Visual Studio Code editor with a file named "Pattern3.java". The code defines a method main(String[]) that prints a diamond pattern of asterisks. The variable n is set to 19. Two nested loops are used: the outer loop iterates over i from 0 to n-1, and the inner loop iterates over j from 0 to n-1-i. A conditional statement checks if the current position (i, j) lies on one of the four edges of the diamond. If so, it prints an asterisk; otherwise, it prints a space.

```
J Pattern3.java 1 x  
C:\Users\hp> hp > Downloads > J Pattern3.java <> Pattern3 > ⚙️ main(String[])  
7  
8     int n=19;  
9     for(int i=0; i<n; i++)  
10    {  
11        for(int j=0; j<n; j++)  
12        {  
13            if( i==0 || j==0 || i==n-1 || j==n-1 || i+j==(n-1)/2 || i-j==(n-1) || j-i==(n-1)/2 )  
14                System.out.print(s+ "");  
15            else  
16            }  
17
```

Answer-4

[illegible]

Answer-5

The screenshot shows a VS Code editor interface with a workspace named 'mango-waiter-mmkbd.pwskills.app/?folder=/config/workspace'. The Explorer sidebar on the left lists the following files:

- .vscode
- extensions.json
- pattern5.class
- pattern5.java
- settings.json
- tasks.json
- HelloWorld.class
- HelloWorld.java
- pattern1.class
- pattern1.java
- pattern2.class
- pattern2.java
- pattern3.class
- pattern3.java
- pattern4.class
- pattern4.java
- pattern6.class
- pattern6.java
- README.md

The main editor area shows the code for 'pattern6.java' at line 92:

```
92      System.out.print(" ");
93      }
94  }
95
96
97      System.out.println();
98  }
99  }
100
101  }
```

The bottom panel contains the 'OUTPUT' view, showing the command executed: `cd "/config/workspace/" && javac pattern6.java && java pattern6`. The output is a grid of asterisks (*) representing a pattern. The pattern is 10 columns wide and 10 rows high, with the following structure:

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

The terminal shows the command completed successfully: `[Done] exited with code=0 in 0.8 seconds`.

The status bar at the bottom indicates: `main*`, `Ln 95, Col 12`, `Spaces: 4`, `UTF-8`, `LF`, `() Java`, `Layout: US`.