This scripts prints different * patterns

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assinging size

```
n = 7;
```

Pattern 1 (Easy)

This is a right triangle

```
fprintf("printing pattern 1 \n");
for i = 1:n
    for j = 1:i
        fprintf("* ");
    end
    fprintf("\n");
end
```

```
printing pattern 1
*
* *
* * *
* * * *
* * * * *
* * * * * *
* * * * * * *
```

Pattern 2 (Easy)

this is reverse right trainge

```
fprintf("printing pattern 2 \n");
for i = 1:n
    for j = i:n
        fprintf("* ");
    end
    fprintf("\n");
end
```

```
printing pattern 2
```

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

Pattern 3 (Medium)

this is mirror right trainge

```
fprintf("printing pattern 3 \n");
for i = 1:n
    for j = i+1:n
        fprintf("  ");
    end
    for j = 1:i
        fprintf("* ");
    end
    fprintf("\n");
end
```

```
printing pattern 3
            *
          * *
        * * *
      * * * *
    * * * * *
  * * * * * *
* * * * * * *
```

Pattern 4 (Medium)

this is mirror reverse right trainge

```
fprintf("printing pattern 4 \n");
for i = 1:n
    for j = 2:i
          fprintf("  ");
    end
    for j = i:n
        fprintf("* ")
    end
    fprintf("\n");
end
```

```
printing pattern 4
* * * * * * *
  * * * * * *
    * * * * *
      * * * *
        * * *
```

```
     * *
       *
```

Patter 5 (Hard)

this is a diamond

```
fprintf("printing pattern 5 \n");
for i = 1:n
     for j = i+1:n
        fprintf("  ");
    end
    for j = 1:i
        fprintf("* ");
    end
    for j = 1:i
        fprintf("* ");
    end
    fprintf("\n");
end
for i = 2:n
    for j = 2:i
          fprintf("  ");
    end
    for j = i:n
        fprintf("* ")
    end
    for j = i:n
        fprintf("* ");
    end
    fprintf("\n");
end
```

```
printing pattern 5
            * *
          * * * *
        * * * * * *
      * * * * * * * *
    * * * * * * * * * *
  * * * * * * * * * * * *
* * * * * * * * * * * * * *
  * * * * * * * * * * * *
    * * * * * * * * * *
      * * * * * * * *
        * * * * * *
          * * * *
            * *
```

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