Assignment 8

Patterns

```
#include <stdio.h>
int main()
   int i, j, rows;
   // Pattern 1
   printf("\nPattern 1:\n");
    for (i = 1; i <= 5; i++)
       for (j = 1; j <= i; j++)
          printf("*");
       printf("\n");
   // Pattern 2
   printf("\nPattern 2:\n");
    rows = 5;
   for (i = 1; i <= rows; i++)
       for (j = 1; j \le rows - i; j++)
           printf(" ");
       for (j = 1; j <= i; j++)
```

```
printf("*");
   printf("\n");
// Pattern 3
printf("\nPattern 3:\n");
for (i = 5; i >= 1; i--)
   for (j = 1; j <= i; j++)
       printf("*");
   printf("\n");
// Pattern 4
printf("\nPattern 4:\n");
for (i = 1; i <= 5; i++)
   for (j = 1; j < i; j++)
      printf(" ");
   for (j = 5; j >= i; j--)
       printf("*");
```

```
printf("\n");
// Pattern 5
printf("\nPattern 5:\n");
rows = 5;
for (i = 1; i <= rows; i++)
    for (j = 1; j \le rows - i; j++)
       printf(" ");
    for (j = 1; j \leftarrow 2 * i - 1; j++)
        printf("*");
    printf("\n");
// Pattern 6
printf("\nPattern 6:\n");
rows = 5;
for (i = rows; i >= 1; i--)
    for (j = 1; j \le rows - i; j++)
       printf(" ");
    for (j = 1; j \leftarrow 2 * i - 1; j++)
```

```
printf("*");
       printf("\n");}
   // Pattern 7
   printf("\nPattern 7:\n");
   rows = 5;
   for (int i = 0; i < rows; i++)
       for (int j = 0; j < rows - i; j++)
           printf("*");
       for (int k = 0; k < 2 * i; k++)
           printf(" ");
       for (int 1 = 0; 1 < rows - i; 1++)
           printf("*");
       printf("\n");
   return 0;
}
```

Pattern 1: Pattern 5: * * ok ok अंद अंद अंद *** **** **** **** ***** Pattern 2: ***** **34**C * * Pattern 6: * * * 米米米米 ***** **** ***** **** Pattern 3: **** *** *** * ** ** ** * * 300 Pattern 7: ***** Pattern 4: **** **** **** *** *** *** *** ** ** ** **28**0 * *