

1. Write a program in C to display the following patterns like right angle triangle with number

```
#include <stdio.h>
```

```
int main() {
int rows= 4, i, j;

// Now you can use rows, i, j...
for (i = 1; i <= rows; i++) {
for (j = 1; j <= i; j++) {
printf("%d", j);
}
printf("\n");
}
return 0;
}
```

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2. Diamond shape with numbers:

```
#include <stdio.h>
int main(void) {
int rows, i, j;
printf("Enter the number of rows: ");
if (scanf("%d", &rows) != 1 || rows < 1) {
printf("Invalid input. Please enter a positive integer.\n");
return 1;
}
for (i = 1; i <= rows; i++) {
for (j = 1; j <= i; j++) {
printf("%d", j);
}
printf("\n");
}
return 0;
}
```