**do while loop**

**1. do{**

**2. //code to be executed**

**3. }while(condition);**

**While loop**

**1. while(condition){**

**2. //code to be executed**

**3. }**

**for loop**

**1. for(initialization;condition;incr/decr){**

**2. //code to be executed**

**3. }**

#include <stdio.h>

int main() {

int i, j, rows;

printf("Enter the number of rows: ");

scanf("%d", &rows);

for (i = 1; i <= rows; ++i) {

for (j = 1; j <= i; ++j) {

printf("\* ");

}

printf("\n");

}

return 0;

}

#include<stdio.h>

int main()

{

int i,j,a;

printf("\nEnter the value:");

scanf("%d",&a);

for(i=1;i<=a;i++)

{

printf("\n");

for(j=1;j<=i;j++)

{

printf("%d",j);

}

}

return 0;

}

#include <stdio.h>

int main() {

int i, j, rows;

printf("Enter the number of rows: ");

scanf("%d", &rows);

for (i = 1; i <= rows; ++i) {

for (j = 1; j <= i; ++j) {

printf("\*");

}

printf("\n");

}

return 0;

}

#include <stdio.h>

int main() {

int i, j, rows;

printf("Enter the number of rows: ");

scanf("%d", &rows);

for (i = 1; i <= rows; ++i) {

for (j = 1; j <= i; ++j) {

printf("\* ");

}

printf("\n");

}

return 0;

}

#include <stdio.h>

int main() {

long long n;

int count = 0;

printf("Enter an integer: ");

scanf("%lld", &n);

// iterate at least once, then until n becomes 0

// remove last digit from n in each iteration

// increase count by 1 in each iteration

do {

n /= 10;

++count;

} while (n != 0);

printf("Number of digits: %d", count);

}