1. /\* Counts up to 10 \*/
2. /\* Counts up to number given by user \*/
3. /\* Counts by **2** up to number given by user \*/
4. /\* Counts by the first number up to second number given by user \*/
5. /\* Counts by the first number from the second number up to third number given by user \*/
6. /\* Finds the minimum of 10 numbers given by user \*/
7. /\* Finds the average of 10 numbers given by user \*/
8. /\* Print a 4x6 rectangle with asterisk \*/
9. /\* Print a 4x6 rectangle with asterisk \*/
   1. /\* Use a for loop for the rows \*/
10. /\* Print a 4x6 rectangle with asterisk \*/
    1. /\* Use a for loop for the rows \*/
    2. /\* Use another for loop for the columns \*/
11. /\* Print a nxm rectangle with asterisk \*/
    1. /\* where n and m are given by the user \*/
    2. /\* Use a for loop for the rows \*/
    3. /\* Use another for loop for the columns \*/
12. /\*Print a right triangle \*/
13. /\*Find out if a number given is a prime number or not \*/
14. /\*List all prime numbers up to given number \*/

/\* Counts up to 10 \*/

#include <stdio.h>

int main(void) {

int i;

for(i = 1; i <= 10; i++) {

printf("%d ", i);

}

return(0);

}

=============================================================================

/\* Counts up to number given by user \*/

#include <stdio.h>

int main(void) {

int i, n;

printf("Please enter an integer: ");

scanf("%d", &n);

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

printf("%d ", i);

}

return(0);

}

=============================================================================

/\* Counts by **2** up to number given by user \*/

#include <stdio.h>

int main(void) {

int i, n;

printf("Please enter an integer: ");

scanf("%d", &n);

for(i = 1; i <= n; i+=2) {

printf("%d ", i);

}

return(0);

}

/\* Counts by the first number up to second number given by user \*/

#include <stdio.h>

int main(void) {

int i, n, By;

printf("Please enter an integer to Count by: ");

scanf("%d", &By);

printf("Please enter an integer to Count to: ");

scanf("%d", &n);

for(i = 1; i <= n; i+=By) {

printf("%d ", i);

}

return(0);

}

=============================================================================

/\* Counts by the first number from the second number up to third number given by user \*/

#include <stdio.h>

int main(void) {

int i, From, To, By;

printf("Please enter an integer to Count by:\t");

scanf("%d", &By);

printf("Please enter an integer to Count from:\t");

scanf("%d", &From);

printf("Please enter an integer to Count to:\t");

scanf("%d", &To);

for(i = From; i <= To; i+=By) {

printf("%d ", i);

}

return(0);

}

/\* Finds the minimum of 10 numbers given by user \*/

#include <stdio.h>

int main(void) {

int i, Num, Min;

printf("Please enter number 1: ");

scanf("%d", &Min);

for(i = 2; i <= 10; i++) {

printf("Please enter number %d: ", i);

scanf("%d", &Num);

if(Num < Min) Min = Num;

}

printf("The minimum is %d\n", Min);

return(0);

}

=============================================================================

/\* Finds the average of 10 numbers given by user \*/

#include <stdio.h>

int main(void) {

int i, Num, Sum = 0;

double Ave;

for(i = 1; i <= 10; i++) {

printf("Please enter number %d: ", i);

scanf("%d", &Num);

Sum += Num;

}

Ave = 1.0 \* Sum / 10;

printf("The average is %.2f\n", Ave);

return(0);

}

/\* Print a 4x6 rectangle with asterisk \*/

#include <stdio.h>

int main(void) {

printf("\*\*\*\*\*\*\n"); /\* row 1 \*/

printf("\*\*\*\*\*\*\n"); /\* row 2 \*/

printf("\*\*\*\*\*\*\n"); /\* row 3 \*/

printf("\*\*\*\*\*\*\n"); /\* row 4 \*/

return(0);

}

=============================================================================

/\* Print a 4x6 rectangle with asterisk \*/

/\* Use a for loop for the rows \*/

#include <stdio.h>

int main(void) {

int i; /\* row count \*/

for(i=1; i<=4; i++) printf("\*\*\*\*\*\*\n");

return(0);

}

=============================================================================

/\* Print a 4x6 rectangle with asterisk \*/

/\* Use a for loop for the rows \*/

/\* Use another for loop for the columns \*/

#include <stdio.h>

int main(void) {

int i; /\* row count \*/

int j; /\* column count \*/

for (i=1; i<=4; i++) {

for (j=1; j<=6; j++) {

printf("\*");

}

printf("\n");

}

return(0);

}

/\* Print a nxm rectangle with asterisk \*/

/\* where n and m are given by the user \*/

/\* Use a for loop for the rows \*/

/\* Use another for loop for the columns \*/

#include <stdio.h>

int main(void) {

int i; /\* row count \*/

int j; /\* column count \*/

int N; /\* Number of rows \*/

int M; /\* Number of columns \*/

printf("Please enter the number of rows: ");

scanf("%d", &N);

printf("Please enter the number of columns: ");

scanf("%d", &M);

for (i=1; i<=N; i++) { /\* Rows \*/

for (j=1; j<=M; j++) { /\* Columns \*/

printf("\*");

}

printf("\n");

}

return(0);

}

=============================================================================

/\*Print a right triangle \*/

#include <stdio.h>

int main(void) {

int i, j; /\* Loop Counter \*/

int N; /\* Number given \*/

printf("Please enter the number: ");

scanf("%d", &N);

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

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

printf("\*");

}

printf("\n");

}

return(0);

}

/\*Find out if a number given is a prime number or not \*/

#include <stdio.h>

int main(void) {

int i; /\* Loop Counter \*/

int N; /\* Number given \*/

int P = 1; /\* 1 means prime, 0 means nonprime \*/

printf("Please enter the number: ");

scanf("%d", &N);

for (i=2; i<N; i++) {

if(N%i == 0) {

P = 0;

break;

}

}

if(P == 1) printf("%d is prime\n", N);

else printf("%d is not prime\n", N);

return(0);

}

=============================================================================

/\*List all prime numbers up to given number \*/

#include <stdio.h>

int main(void) {

int i, j; /\* Loop Counter \*/

int N; /\* Number given \*/

int P; /\* 1 means prime, 0 means nonprime \*/

printf("Please enter the number: ");

scanf("%d", &N);

for(j=2; j<N; j++) {

P = 1;

for (i=2; i<j; i++) {

if(j%i == 0) {

P = 0;

break;

}

}

if(P == 1) printf("%d is prime\n", j);

}

return(0);

}