**לולאות מעורב**

**תרגיל 1**

#include<stdio.h>

void main()

{

int x, y, sum = 0;

printf("please enter numbers:\n");

scanf\_s("%i", &x);

while(x != 0){

sum = 0;

while (x != 0) {

sum = sum + x % 10;

x = x / 10;

}

printf("the sum is:%i\n", sum);

scanf\_s("%i", &x);

}

}

**תרגיל 2**

#include<stdio.h>

void main()

{

int x;

printf("please enter number:\n");

scanf\_s("%i", &x);

for (int i = 0; i < x; i++) {

printf("\n");

for (int y = 0; y <= i ; y++) {

printf("\*");

}

}

}

**תרגיל 3**

#include<stdio.h>

void main()

{

int x;

printf("please enter number:\n");

scanf\_s("%i", &x);

for (int i = x; i <= x; i--) {

if(i % 2 == 1){

printf("\n");

for (int y = 1; y <= i; y++) {

printf("\*");

}

}

}

}

**תרגיל 4**

#include<stdio.h>

void main()

{

int x, y, sum = 0;

printf("please enter number:\n");

scanf\_s("%i", &x);

printf("please enter number:\n");

scanf\_s("%i", &y);

for (int i = 1; i <= y; i++) {

sum = sum + x \* i;

}

printf("%i", sum);

}

**תרגיל 5**

#include<stdio.h>

void main()

{

int x, y, sum = 0;

printf("please enter number:\n");

scanf\_s("%i", &x);

printf("please enter number:\n");

scanf\_s("%i", &y);

for (int i = 1; i <= y; i++) {

sum = sum + (x + i) \* i;

}

printf("%i", sum);

}

**תרגיל 6**

#include<stdio.h>

void main()

{

int x, y;

char z;

printf("please enter a number,char and a number:\n");

scanf\_s("%i", &x);

scanf\_s("\n%c", &z);

scanf\_s("%i", &y);

while (x != 0 && y != 0) {

if (z == '+') {

printf("%i\n", x + y);

}

if (z == '-') {

printf("%i\n", y - x);

}

if (z == '\*') {

printf("%i\n", x \* y);

}

if (z == '/' && y != 0) {

printf("%i\n", x / y);

}

printf("please enter a number,char and a number:\n");

scanf\_s("%i", &x);

scanf\_s("\n%c", &z);

scanf\_s("%i", &y);

}

}