**פונקציות - תשובות**

**1.**

#include<stdio.h>

int factorial(int x) {

int sum = 0;

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

sum = sum + i;

}

return sum;

}

void main() {

int y,z;

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

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

z = factorial(y);

printf("%i", z);

}

**2.**

#include<stdio.h>

int sum\_of\_number(int x) {

int sum = 0;

while( x != 0 ) {

sum = sum + (x % 10);

x = x / 10;

}

return sum;

}

void banana(int length, int arr[]) {

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

int a = sum\_of\_number(arr[i]);

printf("%i digit sum is: %i\n",arr[i],a);

}

}

void main() {

int arr[4];

int length = 4;

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

scanf\_s("%i", &arr[i]);

}

banana(length, arr);

}

**3.**

#include<stdio.h>

void prime\_number(int x) {

int sum = 0;

for (int i = 2; i <= x; i++) {

if (x % i == 0) {

sum++;

}

}

if (sum == 1) {

printf("%i,", x);

}

}

void main() {

int y;

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

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

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

prime\_number(i);

}

}

**4.**

#include<stdio.h>

void prime\_number() {

for (int i = 1; i < 100; i++) {

if (i % 4 != 0) {

printf("%i,", i);

}

}

}

void main() {

prime\_number();

}