Отчёт №3

Лабораторные работы 9-12 вариант №16

```
#include<stdio.h>
int main(){
    char text[50];
    printf("Input a sequence of characters -> ");
    scanf("%s", text);
    int textIndex = 0;
    while (text[textIndex] != '\0') {
        textIndex++;
    }
    printf("Your stuff is %d\n", textIndex);
    //int n;
    //char result[];
    printf("Input a number -> ");
    char *hello []= {"zero", "one", "two", "three", "four", "five", "six",
"seven", "eight", "nine"};
    int x;
    scanf("%d", &x);
    printf("\nYour number with letters is \rightarrow %s", hello[x]);
    return 0;
```

```
#include<stdio.h>
#include<stdlib.h>
 #include<math.h>
int nod(int x, int y) {
     int res;
     if(x==y)
        return x;
     int d = x - y;
     if (d < 0) {
        d = -d;
        res = nod(x, d);
     } else {
        res = nod(y, d);
     return res;
 int nok(int x, int y) {
     return (x * y)/nod(x, y);
 int noofnos(int x, int num) {
     int result = x % 10;
     int arr[] = {0};
     for(int i = 0; i < num - 1; i++) {</pre>
        arr[i] = result;
        x /= 10;
     return arr;
int main() {
     //1 - NOD and NOK
     int n1, n2;
     printf("Enter 1st number -> ");
     scanf("%d", &n1);
     printf("Enter 2nd number -> ");
     scanf("%d", &n2);
     int result1;
     result1 = nod(n1, n2);
     printf("NOD is -> %d", result1);
     int result2;
     result2 = nok(n1, n2);
```

```
printf("\nNOK is -> %d", result2);
//2 - arrays
int n;
printf("\nEnter a number of few digits -> ");
scanf("%d", &n);
int number = n;
double len = (int)log10((double)number) + 1;
int * arr = (int * )malloc(len * sizeof(int));
int i = -1;
int result;
result = n;
printf("\nYour array is -> ");
while(i != len) {
    i++;
    n = result;
   arr[i] = n % 10;
   result \neq 10;
for(int j = i-1; j >= 0; j--){
   printf("%d ", arr[j]);
return 0;
```

```
#include<stdio.h>
#include<math.h>
#include "functions.txt"
#define n 2
typedef struct triangle{
    double AB;
    double BC;
    double AC;
    double P;
    double p;
     double S;
     double A[n];
     double B[n];
     double C[n];
 };
int main(){
     struct triangle s1;
     printf("Enter two coordinates of the vertex A -> ");
     scanf("%lf %lf", &s1.A[0], &s1.A[1]);
     printf("Enter two coordinates of the vertex B -> ");
     scanf("%lf %lf", &s1.B[0], &s1.B[1]);
     printf("Enter two coordinates of the vertex C -> ");
     scanf("%lf %lf", &s1.C[0], &s1.C[1]);
     s1.AB = side length(s1.A[0], s1.A[1], s1.B[0], s1.B[1]);
     s1.BC = side length(s1.B[0], s1.B[1], s1.C[0], s1.C[1]);
     s1.AC = side_length(s1.A[0], s1.A[1], s1.C[0], s1.C[1]);
     s1.P = perimetr(s1.AB, s1.AC, s1.BC);
     s1.p = small_perimetr(s1.P);
     s1.S = plosad(s1.p, s1.AB, s1.BC, s1.AC);
     printf("The perimetr is %.21f\n", s1.P);
     printf("The plosad is %.21f\n", s1.S);
     return 0;
```

```
#include <dos.h>
#include<time.h>
 #include <stdio.h>
  int main(int argc,char *argv[])
       FILE *fp = fopen(argv[1], "w");
       time_t t;
       time(&t);
       //printf("\nThis program has been writeen at (date and time): %s",
   ctime(&t));
       struct tm *local = localtime(&t);
       int hours, minutes, seconds, day, month, year;
       hours = local->tm hour;
       minutes = local->tm min;
       seconds = local->tm_sec;
       day = local->tm_mday;
       month = local->tm_mon+1;
       year = local->tm_year + 1900;
       //argc = day;
       for(int i = 0; i < 10; i++) {</pre>
           fprintf(fp, "date is %02d/%02d/%d\n", day, month, year);
           day++;
       }
       return 0;
```