#include <stdio.h> //prac1

int main() {

int num = 0, count = 0;

printf("Number : ");

scanf("%d", &num);

while(num != 0){

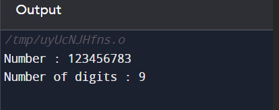
count++;

num /= 10;

}

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

}



#include <stdio.h> //prac2a

int main(){

char srcstring[100], substring[100], result[100]; int reslen = 0, flag = 0;

printf("Source String : ");

gets(srcstring);

printf("Substring : ");

gets(substring);

for(int i = 0; substring[i] != '\0'; i++){

for (int j = 0; srcstring[j] != '\0'; j++){

if(substring[i] == srcstring[j]){

result[reslen] = srcstring[j];

substring[i] = 0;

reslen++;

}

}

}

printf("Substring %s present in given source string", result);

return 0;

}

#include <stdio.h> //prac2b

int strlength(char str[]){

int len = 0;

for (int i = 0; str[i] != '\0'; i++){

len++;

}

return len;

}

void reverse(char str[]){

char reverse[100];

for(int i = 0; str[i] != '\0'; i++){

reverse[i] = str[strlength(str)-i-1];

}

printf("Reversed String : %s", reverse);

}

int main(){

char src[100];

printf("String : ");

gets(src);

reverse(src);

return 0;

}

#include <stdio.h> //prac2c

int strlength(char str[]){

int len = 0;

for (int i = 0; str[i] != '\0'; i++){

len++;

}

return len;

}

int isPalindrome(char str[]){

char reverse[100]; int flag = 0;

for(int i = 0; str[i] != '\0'; i++){

reverse[i] = str[strlength(str)-i-1];

}

for(int i = 0; str[i] != 0; i++){

if(reverse[i] == str[i]){

flag = 1;

} else {

flag = 0;

break;

}

}

return flag;

}

int main(){

char str[100];

printf("String : ");

gets(str);

if(isPalindrome(str) == 1) printf("%s is a palindrome", str);

else printf("%s is not a palindrome", str);

return 0;

}

#include <stdio.h> //prac3a

int main(){

int rows = 0;

printf("Number of rows : ");

scanf("%d", &rows);

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

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

printf("\* ");

}

printf("\n");

}

return 0;

}

#include <stdio.h> //prac3b

int main(){

    int rows = 0;

    printf("Number of rows : ");

    scanf("%d", &rows);

    for(int i = rows; i > 0; i--){

        for (int j = 0; j < i; j++) {

            printf("\* ");

        }

        printf("\n");

    }

    return 0;

}

#include <stdio.h> //prac3c

int main() {

    int rows, spaces, i;

    printf("Number of rows : ");

    scanf("%d", &rows);

    for (i = 1; i <= rows; i++){

        for (spaces = 1; spaces <= rows - i; spaces++)

            printf("  ");

        for (spaces = 1; spaces <= 2 \* i - 1; spaces++)

            printf("\* ");

        printf("\n");

    }

    for (i = 1; i <= rows - 1; i++){

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

            printf("  ");

        for (spaces = 1; spaces <= 2 \* (rows - i) - 1; spaces++)

            printf("\* ");

        printf("\n");

    }

    return 0;

}

