PROGRAMMING IN C

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**(1). Scan a string and print in reverse order.**

**PROGRAM :**

//Write a program to reverse a string

#include <stdio.h>

#include<conio.h>

#include <string.h>

int main()

{

char a[100], b[100];

printf("Enter a string to be reversed : ");

gets(a);

strcpy(b,a);

strrev(b);

printf("The reversed string is : %s ",b);

getch();

}

**OUTPUT :**

Enter a string to be reversed : Mihir

The reversed string is : rihiM

**(2). Accept a string from user and find if the accepted string is palindrome or not.**

**PROGRAM :**

//Check if the Number entered is palindrome or not

#include <stdio.h>

#include<conio.h>

#include <string.h>

int main()

{

char a[100], b[100];

printf("Enter a string to check if it's a palindrome : ");

gets(a);

strcpy(b,a);

strrev(b);

if(strcmp(a,b)==0)

{

printf("The string is a palindrome.\n");

}

else

{

printf("The string isn't a palindrome.\n");

}

getch();

}

**OUTPUT :**

Enter a string to check if it's a palindrome : NAMAN

The string is a palindrome.

**(3). Perform Linear search on 5 strings. (Scan all 5 strings from the user)**

**PROGRAM :**

#include<stdio.h>

#include<conio.h>

void main()

{

char a[100],b[100],c[100],d[100],e[100],r[100];

printf("Enter a string : ");

scanf("%s",a);

printf("Enter a string : ");

scanf("%s",b);

printf("Enter a string : ");

scanf("%s",c);

printf("Enter a string : ");

scanf("%s",d);

printf("Enter a string : ");

scanf("%s",e);

printf("Enter a random string : ");

scanf("%s",r);

if((strcmp(r,a)==0)||(strcmp(r,b)==0)||(strcmp(r,c)==0)||(strcmp(r,d)==0)||(strcmp(r,e)==0))

{

printf("Entered random string is a match to the entered strings previously");

}

else

{

printf("Entered random string is not a match to the entered strings previously");

}

getch();

}

**OUTPUT :**

Enter a string : mihir

Enter a string : panchal

Enter a string : student

Enter a string : it

Enter a string : boy

Enter a random string : mihir

Entered random string is a match to the entered strings previously

**(4). Create a structure of Bank including - Account number, Account name, deposit amount. Accept the member variable values and display the same.**

**PROGRAM :**

//(4). Create a structure of Bank including - Account number, Account name, deposit amount. Accept the member variable values and display the same.

#include<stdio.h>

#include<conio.h>

struct member

{

char aname[100];

int ano;

char adeposit[100];

};

void main()

{

struct member a;

printf("Enter Bank details :\n");

printf("Enter Account name : ");

scanf("%s",a.aname);

printf("Enter Account number : ");

scanf("%d",&a.ano);

fflush(stdin);

printf("Enter Deposit amount : ");

scanf("%s",a.adeposit);

printf("You have entered following data :\n");

printf("Account name = %s\n",a.aname);

printf("Account number = %d\n",a.ano);

printf("Deposit amount = %s\n",a.adeposit);

getch();

}

**OUTPUT :**

Enter Bank details :

Enter Account name : Saving

Enter Account number : 129320

Enter Deposit amount : 20000010

You have entered following data :

Account name = Saving

Account number = 129320

Deposit amount = 20000010

**(5). Create a structure of Bank including - Account number, Account name, deposit amount. Accept the data for 2 account holders and display it.**

**PROGRAM :**

//(5). Create a structure of Bank including - Account number, Account name, deposit amount. Accept the data for 2 account holders and display it.

#include<stdio.h>

#include<conio.h>

struct member

{

char aname[100];

int ano;

char adeposit[100];

};

void main()

{

struct member a[100];

int i,j;

printf("Enter Bank details :\n\n");

for(i=1;i<3;i++)

{

printf("Enter Account name : ");

scanf("%s",a[i].aname);

fflush(stdin);

printf("Enter Account number : ");

scanf("%d",&a[i].ano);

fflush(stdin);

printf("Enter Deposit amount : ");

scanf("%s",a[i].adeposit);

printf("\n");

}

for(i=1;i<3;i++)

{

printf("\nData %d entered is as follows : \n",i);

printf("Account name = %s\n",a[i].aname);

printf("Account number = %d\n",a[i].ano);

printf("Deposit amount = %s\n",a[i].adeposit);

}

getch();

}

**OUTPUT :**

Enter Bank details :

Enter Account name : Saving

Enter Account number : 17373484

Enter Deposit amount : 210213

Enter Account name : Current

Enter Account number : 88252293

Enter Deposit amount : 10000000

Data 1 entered is as follows :

Account name = Saving

Account number = 17373484

Deposit amount = 210213

Data 2 entered is as follows :

Account name = Current

Account number = 88252293

Deposit amount = 10000000

**(6). Create the Student structure including student id, name, rollno, marks for 3 subjects. Accept the data for 2 students and display the total and percentage of each.**

**PROGRAM :**

//Program for displaying two marks of subjects for two student and doing PERCENTAGE

#include<stdio.h>

#include<conio.h>

struct student

{

int rollno;

char name[100];

float marks[4];

int total;

float percentage;

};

void main()

{

struct student a[2];

int i,j;

printf("Enter student database :\n");

for(i=0;i<2;i++)

{

printf("Enter student name : ");

scanf("%s",&a[i].name);

fflush(stdin);

printf("Enter student roll no : ");

scanf("%d",&a[i].rollno);

fflush(stdin);

a[i].total=0;

for(j=1;j<4;j++)

{

printf("Enter student marks for subject out of 100 : ");

scanf("%f",&a[i].marks[j]);

a[i].total=a[i].total+a[i].marks[j];

}

a[i].percentage=((float)a[i].total/3);

}

for(i=0;i<2;i++)

{

printf("Percentage achieved by %s is %0.3f \n",a[i].name,a[i].percentage);

}

getch();

}

**OUTPUT :**

Enter student database :

Enter student name : Mihir

Enter student roll no : 18

Enter student marks for subject out of 100 : 100

Enter student marks for subject out of 100 : 100

Enter student marks for subject out of 100 : 100

Enter student name : Kabir

Enter student roll no : 13

Enter student marks for subject out of 100 : 80

Enter student marks for subject out of 100 : 90

Enter student marks for subject out of 100 : 92

Percentage achieved by Mihir is 100.000

Percentage achieved by Kabir is 87.333