

Practice Program - 1

Question program to find total marks in 5 subjects from students.

Ans: #include < stdio.h >

#include < stdlib.h >

struct Student

{

int marks1;

int marks2;

int marks3;

int marks4;

int marks5;

int total_marks;

}

student[100];

int main()

{

int n;

printf("Please enter the number of students: ");

scanf("%d", &n);

for (int i=0; i<n; i++)

{

printf("Enter the marks of student %d in subject 1: ", (i+1));

scanf("%d", &student[i].marks1);

printf("Enter the marks of student %d in subject 2: ", (i+1));

scanf("%d", &student[i].marks2);

printf("Enter the marks of student %d in subject 3: ", (i+1));

scanf("%d", &student[i].marks3);

printf("Enter the marks of student %d in subject 4: ", (i+1));

scanf("%d", &student[i].marks4);

printf("Enter the marks of student %d in subject 5: ", (i+1));

scanf("%d", &student[i].marks5);

printf("\n");

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student CJ.total marks = student CJ. marks1 + student CJ. marks2
+ student CJ. marks3 + student CJ. marks4 +
student CJ. marks5;

{

for (int i=0; i<n; i++)

{

printf("Student %d total marks are %d \n", (i+1),
student CJ. total mark)

{

return 0;

{

Pratice Program - 2

Ques: Prepare salary details of an employee with necessary salary details.

Ans: #include <stdio.h>

#include <stdlib.h>

struct EMPLOYEE

{

char name[50];

float basic;

float hra;

float da;

float pf;

float gross;

}; emp[100];

int main()

{

int n;

printf("Please enter the no. of employee details you want :");

scanf("%d",&n);

for (int i=0; i<n; i++)

{

printf("DETAILS OF EMPLOYEE %d:",(i+1));

printf("\nEnter the name: ");

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

printf("Enter Basic Salary ");

scanf("%f",&emp[i].basic);

printf("Enter HRA ");

scanf("%f",&emp[i].hra);

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printf("Enter D.A :");
scanf("%f", &empCJ.da);
emplij.pt = (empCJ.basic * 12) / 100;
emplij.gross = empCJ.basic + empCJ.da + empCJ.hra
+ empCJ.pt;
}

for (int i = 0; i < n; i++)
{
    printf("\n***** SAVARY DETAILS *****");
    printf("\n Name: %s \n BASIC : %f \n HRA : %f \n DA : %f \n PT : %f \n GROSS SALARY : %f ", empCJ.name,
    empCJ.basic, empCJ.hra, empCJ.da, empCJ.pt, empCJ.gross);
}
return 0;
}

```

Practice Programs - 3

QUESTION: Write a program to perform banking operations withdrawal and deposit in a bank.

#include < stdio.h >

struct bank

{

int no;

char name [50];

float bal;

float dep;

}; b [50];

int i, j, num;

int x = 0;

float amt;

int main()

{ int ch;

while (1)

{

printf ("Wn");

printf ("Inxx BANKING SYSTEM-14*x**");

printf ("InPress 1 for creation");

printf ("InPress 2 for deposit");

printf ("InPress 3 for withdrawal");

printf ("InPress 4 for exit");

printf ("In Please enter a (valid) choice:");

scanf ("%d", &ch);

switch (ch)

{

case 1:

```

printf("Please enter your account number");
scanf("%d", &b[1].no);
printf("Please enter your name:");
scanf("%s", &b[1].name);
printf("Your minimum deposit is 1000");
b[1].dep=1000;
if:
break;

```

case 2:

float num;

```

printf("DEPOSIT");
printf("Please enter your account number");
scanf("%d", &num);

```

```

for(int j=0; j<i; j++)
    if(b[j].no == num)

```

{

x=j;

```

printf("Account Number: %d", b[x].no);

```

```

printf("Name: %s", b[x].name);

```

```

printf("Deposit: %f", b[x].dep);

```

```

printf("How much do you want to deposit? ");

```

```

scanf("%f", &amt);

```

```

b[x].dep+=amt;

```

3 printf("New Deposit Amount: %f", b[x].dep);

else

{

printf("Account number is invalid");

}

break;

case 3:

```

printf("Enter account number: ");
scanf("%d", &num);
for (int i = 0; i < 10; i++)
{
    if (b[i].no == num)
        j = i;
}
if (b[j].no == num)
{
    printf("Account Number: %d", b[j].no);
    printf("Name: %s", b[j].name);
    printf("Deposit: %f", b[j].dep);
    printf("How much do you want to withdraw now?");
    scanf("%f", &wd);
    if (b[j].dep < wd)
    {
        printf("Cannot withdraw as your account has
               minimum balance");
    }
    else
    {
        b[j].dep -= wd;
        printf("The Balance amount is: %f", b[j].dep);
    }
}
else
{
    printf("Invalid account no");
}
break;
case 4: exit(0);
    
```

default: print "invalid choice"

}

}

return 0;

}

Batch Program - 4

Ques: Write a C Program that accepts - name, Reg no, marks
marks, mark 3 of student. Display an alphabetical list
of students with the following details Name, Reg-no, Total marks
and Rank in the class.

```
#include <stdio.h>
struct student {
    char name[50];
    int regno;
    float marks1;
    float marks2;
    float marks3;
    float totalmarks;
    int rank;
} s[50];
int max=0;
int main()
{
    int n;
    printf("Enter how many student details you want:");
    scanf("%d", &n);
    for (int i=0; i<n; i++)
    {
        printf("\n*** STUDENT INFORMATION ***");
        printf("Enter details of student %d, (%d,%d)", i+1);
        printf("Enter name:");
        scanf("%s", &s[i].name);
        printf("Enter roll no:");
        scanf("%d", &s[i].regno);
        printf("Enter marks1:");
        scanf("%f", &s[i].marks1);
        printf("Enter marks2:");
        scanf("%f", &s[i].marks2);
        printf("Enter marks3:");
        scanf("%f", &s[i].marks3);
        s[i].totalmarks = s[i].marks1 + s[i].marks2 + s[i].marks3;
        if (s[i].totalmarks > max)
            max = s[i].totalmarks;
    }
}
```

```

printf("Enter marks 2:");
scanf("%f", &SLT.marks2);
printf("Enter marks 3:");
scanf("%f", &SLT.marks3);
SCJ.totalmarks = SLT.marks1 + SLT.marks2 + SLT.marks3;
}

for (int i=0; i<n; i++)
{
    SCi.rank = i;
}

for (int i=0; i<n; i++)
{
    for (int j=0; j<n-i-1; j++)
    {
        if (SCj.totalmarks < SCj+1.totalmarks)
        {
            int t = SCj.rank;
            SCj.rank = SCj+1.rank;
            SCj+1.rank = t;
        }
    }
}

for (int i=0; i<n; i++)
{
    for (int j=0; j<n-i-1; j++)
    {
        if (strcmp(SCj.name, SCj+1.name) > 0)
        {
            int t = SCj.totalmarks;
            SCj.totalmarks = SCj+1.totalmarks;
            SCj+1.totalmarks = t;
        }
    }
}

```

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strcpy(t1, sc[i].name);

strcpy(sc[j].name, sc[i+1].name);

strcpy(sc[i+1].name, t1);

int t2 = sc[i].regno;

sc[i+1].regno = t2;

}

}

}

for (int i=0; i<n; i++)

{

printf("Displaying information in %d\n",

printf("Name : %s", sc[i].name);

printf("Roll no: %d\n", sc[i].regno);

printf("Total marks: %d\n", sc[i].totalmarks);

printf("Rank is %d", sc[i].rank+1);

}

return 0;

.

Practice Program 5

Question Program to insert an element at a relevant position in an array using function.

```
Code: #include <stdio.h>
#include <stdlib.h>
int main()
{ int a[100] = {0}, n;
int m;
printf("Input The number of elements of the array");
scanf("%d", &n);
insert_element(a, n);
return 0;
}
void insert_element(int a[], int n)
{
for (int i=0; i<n; i++)
{
scanf("%d", &a[i]);
}
for (int i=0; i<n; i++)
{
printf("%d", a[i]);
}
printf("Please enter the number to be inserted");
scanf("%d", &m);
printf("Please enter the position at which it should be
inserted");
scanf("%d", &pos);
}
```

for (int i = n; i > pos; i--)

{

 a[i] = a[i - 1];

}

if (pos == 1) cout <<

 for (int i = 0; i < n; i++)

{

 ptr[i] = a[i];

,

}

Practice Program - 6

One for programs to find alphanumeric characters and their count in a line of text.

Code: #include <stdio.h>

```
#include <stdlib.h>
```

#include <string.h>

int main()

5

char str[100];

$$\text{int alp} = 0;$$

six digits + 0;

int special = 0;

int i = 0;

```
printf ("\\n Counting the total number of alphabets,\n digits and \\del{char} special characters:\\n ");
```

penff ("input the string: ");

~~fgeth(str, sizeof str, stdin)~~

~~while (str[i] != '0')~~

5

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alp++;

3

else if (chr(i) == '0' && str(i) <= c91)

1

digit + f;

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j++;

3

```
printf("Number of alphabets in the string is: %d\n", alpha);
printf("Number of digits in the string is: %d\n", digit);
printf("Number of special characters in the string is: %d\n",
       special);
return 0;
```

}