**Program 1:**

#include <stdio.h>

#include <conio.h>

int main()

{

int a, b, c;

char op;

printf("Enter your operator(+, -, /, \*, %)\n");

scanf("%c", &op);

printf("Enter the values of a and b\n");

scanf("%d%d", &a, &b);

switch(op)

{

case '+': c = a + b;

printf("addition of two numbers is %d", c);

break;

case '-': c = a - b;

printf("substraction of two numbers is %d", c);

break;

case '\*': c = a \* b;

printf("multiplication of two numbers is %d", c);

break;

case '/': if (b==0)

printf("Divide by 0");

else

{ c = a / b;

printf("remainder of two numbers is %d", c);

}

break;

default: printf("op is notsupported");

break;

}

getch();

}

**Program 2:**

#include<stdio.h>

int main()

{

long long pa=9000000,pd=3600000;

long long tf,n,ti,income,tb=0;

printf("Income of this year: ");

scanf("%ld", &income);

printf("Number of dependent: ");

scanf("%d", &n);

tf = 12\*(pa + n\*pd);

ti = income-tf;

printf("Tax-free income: %ld\n", tf);

if(ti<=0){

printf("Taxable income: %ld\n", 0);

printf("Incometax: %ld", 0);

}

else{

if(ti-5000000>=0){

tb=tb+(5000000.05);

}

else tb=tb+(ti\*0.05);

if(ti-10000000>=0) {tb=tb+((10000000-5000000)\*0.1);}

else { tb=tb+((ti-5000000)\*0.1);}

if(ti-18000000>=0) { tb=tb+((18000000-10000000)\*0.15);}

else {tb=tb+((ti-10000000)\*0.15);}

if(ti>18000000) {tb=tb+((ti-18000000)\*0.2);}

else { tb=tb+((ti-18000000)\*0.2);}

printf("Taxable income: %ld\n", ti);

printf("Incometax: %ld", tb);

}

return 0;

}

**Program 3:**

#include "stdio.h"

int main()

{

int x, S = 0;

do{

printf("Enter an integer number: ");

scanf("%d", &x);

S = S + x;

printf("\n");

}while(x!=0);

printf("Sum of integers: %d", S);

return 0;

}

**Program 4:**

#include<stdio.h>

main(){

int x,y,t;

do{

printf("Enter two number\n");

scanf("%d%d", &x, &y);

printf("Before Swapping\nFirst number = %d\nSecond number = %d\n", x, y);

t = x;

x = y;

y = t;

printf("After Swapping\nFirst number = %d\nSecond number = %d\n", x, y);

}while( x!=0 && y!=0);

return 0;

}

**Program 5:**

#include<stdio.h>

int getchar();

int toupper(ch);

int main(){

int V=0,C=0,O=0;

char ch;

printf("input: ");

do{

ch = getchar();

ch = toupper(ch);

if ( ch>= 'A' && ch <='Z') {

switch (ch) {

case 'A':

case 'E':

case 'I':

case 'O':

case 'U':

V ++;

break;

default: C++;

}

} else O++;

}while ( ch !='\n');

printf("Vowles: %d\n", V);

printf("Consonants: %d\n", C);

printf("Others: %d\n", O);

}

**Program 6:**

#include<stdio.h>

main(){

int i = 0;

char ch;

for(i = 0; i < 256; i++){

printf("%c : %d, %o", i, i, i);

if(i !=0 && i %20==0) getchar();

}

}

**Program 7:**

#include<stdio.h>

main()

{

char c1,c2,t,c;

int d;

printf("nhap c1:");

scanf("%c",&c1); fflush(stdin);

printf("nhap c2:");

scanf("%c",&c2);

if(c1>c2){

t=c1 ; c1=c2; c2=t;

}

d=c2-c1;

printf("d:%d",d);

printf("\nchar dec octal hex\n");

for(c=c2;c>=c1;c++)

{

printf("%c:%6d%6o%6x\n",c,c,c,c);

}

return 0;

}