//c program to compute basic calculator operations using switch statement//

#include<stdio.h>

int main()

{

int a,b,c,n;

printf("enter your choice:\n");

printf("1.Addition\t 2.subtraction\t 3.multiplication\t 4.division\t 5.modulus\n");

scanf("%d",&n);

switch(n){

case 1:

printf("enter two numbers:\n");

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

c = a + b;

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

break;

case 2:

printf("enter two numbers:\n");

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

c = a - b;

printf("the subtraction of two number is %d",c);

break;

case 3:

printf("enter two numbers:\n");

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

c = a \* b;

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

break;

case 4:

printf("enter two numbers:\n");

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

c = a / b;

printf("the division of two number is %d",c);

break;

case 5:

printf("enter two numbers:\n");

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

c = a % b;

printf("the modulus of two number is %d",c);

break;

default:

printf("exit\n");

break;

}

return 0;

}

Output:

gcc version 4.6.3

enter your choice:

1.Addition 2.subtraction 3.multiplication 4.division 5.modulus

4

enter two numbers:

8 2

the division of two number is 4

//c program to find the eligibility of admission for a professional course//

#include<stdio.h>

int main()

{

char a[10];

int id,m1,m2,m3;

printf("enter your name:\n");

scanf("%s",&a);

printf("enter your id:\n");

scanf("%d",&id);

printf("enter your marks:\n");

scanf("%d%d%d",&m1,&m2,&m3);

if(m1>=60 && m2>=70 && m3>=80)

{

printf("Congrajulations!You are eligible\n");

}

else

{

printf("sorry!You are not eligible:\n");

}

return 0;

}

Output:

gcc version 4.6.3

enter your name:

ilakiya

enter your id:

8756

enter your marks:

67 87 97

Congrajulations!You are eligible

//c program to calculate profit or loss//

#include<stdio.h>

int main()

{

int cost\_price,sell\_price,profit,loss;

printf("enter the cost price:\n");

scanf("%d",&cost\_price);

printf("enter the sell price:\n");

scanf("%d",&sell\_price);

if(cost\_price > sell\_price)

{

loss = cost\_price-sell\_price;

printf("loss of amount:%d",loss);

}

else if(cost\_price < sell\_price)

{

profit = sell\_price-cost\_price;

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

}

else

{

printf("Have a nice day!");

}

return 0;

}

Output:

gcc version 4.6.3

enter the cost price:

656

enter the sell price:

676

profit amount:20

//c program to check whether the given sides forms the triangle//

#include<stdio.h>

int main()

{

int a,b,c;

printf("enter the sides of triangle:\n");

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

if((a + b > c)&&(a + c > b)&&(b + c > a))

{

printf("triangle can be formed\n");

}

else {

printf("tiangle cannot be formed\n");

}

return 0;

}

Output:

gcc version 4.6.3

enter the sides of triangle:

66

56

78

triangle can be formed

//c program to calculate electricity bill//

#include <stdio.h>

#include <string.h>

int main()

{

int id, consumed;

float charge, surcharge=0, gramt,netamt;

char name[25];

printf("Input Customer ID :");

scanf("%d",&id);

printf("Input the name of the customer :");

scanf("%s",name);

printf("Input the unit consumed by the customer : ");

scanf("%d",&consumed);

if (consumed <200 )

  charge = 1.20;

else if (consumed>=200 && consumed<400)

    charge = 1.50;

  else if (consumed>=400 && consumed<600)

      charge = 1.80;

    else

      charge = 2.00;

gramt = consumed\*charge;

if (gramt>300)

  surcharge = gramt\*15/100.0;

netamt = gramt+surcharge;

if (netamt < 100)

  netamt =100;

printf("\nElectricity Bill\n");

printf("Customer IDNO :%d\n",id);

printf("Customer Name :%s\n",name);

printf("unit Consumed :%d\n",consumed);

printf("Amount Charges @Rs. %4.2f per unit :%8.2f\n",charge,gramt);

printf("Surchage Amount :%8.2f\n",surcharge);

printf("Net Amount Paid By the Customer :%8.2f\n",netamt);

}

Output:

gcc version 4.6.3

Input Customer ID : 23

Input the name of the customer : ilakiya

Input the unit consumed by the customer : 67

Electricity Bill

Customer IDNO :23

Customer Name :ilakiya

unit Consumed :67

Amount Charges @Rs. 1.20 per unit : 80.40

Surchage Amount : 0.00

Net Amount Paid By the Customer : 100.00

//c program to check whether the given number is zero,positive or negative//

#include<stdio.h>

int main()

{

int a;

printf("enter a number:\n");

scanf("%d",&a);

if(a==0)

{

printf("the number is zero");

}

else if(a>0)

{

printf("the number is positive number\n");

}

else

{

printf("the number is negative number\n");

}

return 0;

}

Output:

gcc version 4.6.3

enter a number:

-977

the number is negative number

//c program to check whether the given number is odd or even//

#include<stdio.h>

int main()

{

int a;

printf("enter a number:\n");

scanf("%d",&a);

if(a%2==0)

{

printf("the number is even number\n");

}

else

{

printf("the number is odd number\n");

}

return 0;

}

Output:

gcc version 4.6.3

enter a number:

23

the number is odd number