1. Display multiple variables.

Sample variables:

a+c,x+c,dx+x,a+x,s+b,ax,+b,s+c,ax+c,ax+ux

#include <stdio.h>

int main() {

int a = 125, b = 12345;

long ax = 1234567890;

short s = 4043;

float x = 2.13459;

double dx = 1.1415927;

char c = 'W';

unsigned long ux = 2541567890;

printf("a+b=%d",a+b);

printf("\na+c=%d ==> letter will be converted in to ASCII and sum with integer.",a+c);

printf("\nx+c=%f",x+c);

printf("\ndx+x=%lf",dx+x);

printf("\na+x=%f",a+x);

printf("\ns+b=%i",s+b);

printf("\nax+b=%li",ax+b);

printf("\ns+c=%i",s+c);

printf("\nax+c=%li",ax+c);

printf("\nax+ux=%li",ax+ux);

return 0;

}

Output:

a+b=12470

a+c=212 ==> letter will be converted in to ASCII and sum with integer.

x+c=89.134590

dx+x=3.276183

a+x=127.134590

s+b=16388

ax+b=1234580235

s+c=4130

ax+c=1234567977

ax+ux=3776135780

2.Convert specified days into years,weeks and days.

#include <stdio.h>

int main() {

int days,years,weeks;

printf("Enter days: ");

scanf("%d" , &days);

years = days/365;

weeks = (days % 365)/7;

days = days- ((years\*365) + (weeks\*7));

printf("Years: %d\n" , years);

printf("Weeks: %d\n" , weeks);

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

return 0;

}

Output:

Enter days: 1329

Years: 3

Weeks: 33

Days: 3

3.Accepts two item’s weight(floating points’ values)and number of purchase(floating points’ values)and calculate the average value of the items.

#include <stdio.h>

float main()

{

float wi1, ci1, wi2, ci2, result;

printf("Weight - Item1: ");

scanf("%f", &wi1);

printf("No. of item1: ");

scanf("%f", &ci1);

printf("Weight - Item2: ");

scanf("%f", &wi2);

printf("No. of item2: ");

scanf("%f", &ci2);

result = ((wi1 \* ci1) + (wi2 \* ci2)) / (ci1 + ci2);

printf("Average Value = %f\n", result);

return 0;

}

Output:

Weight - Item1: 15

No. of item1: 5

Weight - Item2: 25

No. of item2: 4

Average Value = 19.444445

4.Create enumerated data type for 7days and display their values in integer constants.

#include <stdio.h>

int main() {

enum week{Sun, Mon, Tue, Wed, Thu, Fri, Sat};

printf("Sun = %d", Sun);

printf("\nMon = %d", Mon);

printf("\nTue = %d", Tue);

printf("\nWed = %d", Wed);

printf("\nThu = %d", Thu);

printf("\nFri = %d", Fri);

printf("\nSat = %d", Sat);

return 0;

}

Output:

Sun = 0

Mon = 1

Tue = 2

Wed = 3

Thu = 4

Fri = 5

Sat = 6

5.Convert Centigrade to Fahrenheit.

#include <stdio.h>

float main() {

float centigrade, fahrenheit;

printf("Enter temperature in centigrade: ");

scanf("%f", &centigrade);

fahrenheit = (centigrade \* 9 / 5) + 32;

printf("%.2f Centigrade = %.2f Fahrenheit", centigrade, fahrenheit);

return 0;

}

Output:

Enter temperature in centigrade: 40

40 Centigrade = 104.00 Fahrenheit

6.Takes minutes as input,and display the total number of hours and minutes.

#include <stdio.h>

int main()

{

int m,h,m1;

printf("Enter total Minutes : ");

scanf("%d",&m);

h=m/60;

m1=(m-h\*60);

printf("h: %d, m: %d ",h,m1);

return 0;

}

Output:

Enter total Minutes : 337

h: 5, m: 37

7.Prints the perimeter of a rectangle to take its height and width as input.

#include <stdio.h>

int main() {

int width;

int height;

int perimeter;

printf("Enter the height of the Rectangle : ");

scanf("%d", &height);

printf("Enterthe width of the Rectangle : ");

scanf("%d", &width);

perimeter = 2 \* (height + width);

printf("Perimeter of the Rectangle is : %d\n",perimeter);

return 0;

}

Output:

Enter the height of the Rectangle : 5

Enterthe width of the Rectangle : 8

Perimeter of the Rectangle is : 26

8.By using +,/,%=,>=,! operators.

#include <stdio.h>

int main() {

int a = 8,b = 4,c;

c = a + b;

printf("a + b = %d \n",c);

c = a / b;

printf("a / b = %d \n",c);

c %= a;

printf("c = %d \n",c);

printf("%d >= %d is %d \n", a, b, a >= b);

c = !(a != b);

printf("!(a != b) is %d \n", c);

return 0;

}

Output:

a + b = 12

a / b = 2

c = 2

8 >= 4 is 1

!(a != b) is 0

9.By using &,|,>>,?:,|| operators.

#include <stdio.h>

int main() {

int a = 10,b = 25,c = 28,d,i;

printf("d= %d\n", a&b);

printf("d= %d\n", a|b);

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

printf("Right shift by %d :%d\n",i,c>>i);

d=((a==10)?(5):(2));

printf("The value of 'd' variable is : %d\n",d);

d= (a == b) || (c < b);

printf("(a == b) || (c < b) is %d\n", d);

return 0;

}

Output:

d= 8

d= 27

Right shift by 0 :28

Right shift by 1 :14

Right shift by 2 :7

The value of 'd' variable is : 5

(a == b) || (c < b) is 0

10.Find the size of int,float,double and char.

#include <stdio.h>

int main() {

int intType;

float floatType;

double doubleType;

char charType;

printf("Size of int: %zu bytes\n", sizeof(intType));

printf("Size of float: %zu bytes\n", sizeof(floatType));

printf("Size of double: %zu bytes\n", sizeof(doubleType));

printf("Size of char: %zu byte\n", sizeof(charType));

return 0;

}

Output:

Size of int: 4 bytes

Size of float: 4 bytes

Size of double: 8 bytes

Size of char: 1 byte