

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

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

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

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

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

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

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

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

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

```
return 0;
```

```
}
```

Output:

```
C:\Users\DELL\Documents\multi.exe
a+b=12470
a+c=212
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=-518831516
-----
Process exited after 0.0751 seconds with return value 0
Press any key to continue . . .
```

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

```
#include <stdio.h>

int main()
{
    int days, years, weeks;

    days = 1329;

    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 \n", days);

    return 0;
}
```

Output:

Select C:\Users\DELL\Documents\days.exe

```
Years: 3
Weeks: 33
Days: 3

-----
Process exited after 0.1018 seconds with return value 0
Press any key to continue . . .
```

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>

int 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:

```
C:\Users\DELL\Documents\wt.exe
Weight - Item1: 25
No. of item1: 6
Weight - Item2: 60
No. of item2: 7
Average Value = 43.846153

-----
Process exited after 19.8 seconds with return value 0
Press any key to continue . . .
```

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

```
#include <stdio.h>

int main()
{
    enum week{mon,tue,wed,thu,fri,sat,sun };

    printf("the value of enum week:%d\t%d\t%d\t%d\t%d\t%d\t%d\n",mon,tue,wed,thu,fri,sat,sun);

}
```

Output:

```
C:\Users\DELL\Documents\enum.exe
the value of enum week:0      1      2      3      4      5      6

-----
Process exited after 0.057 seconds with return value 38
Press any key to continue . . .
```

5. Converts centigrade to Fahrenheit.

```
#include <stdio.h>

int main()
{
    float celsius, fahrenheit;

    printf("Enter temperature in Celsius: ");

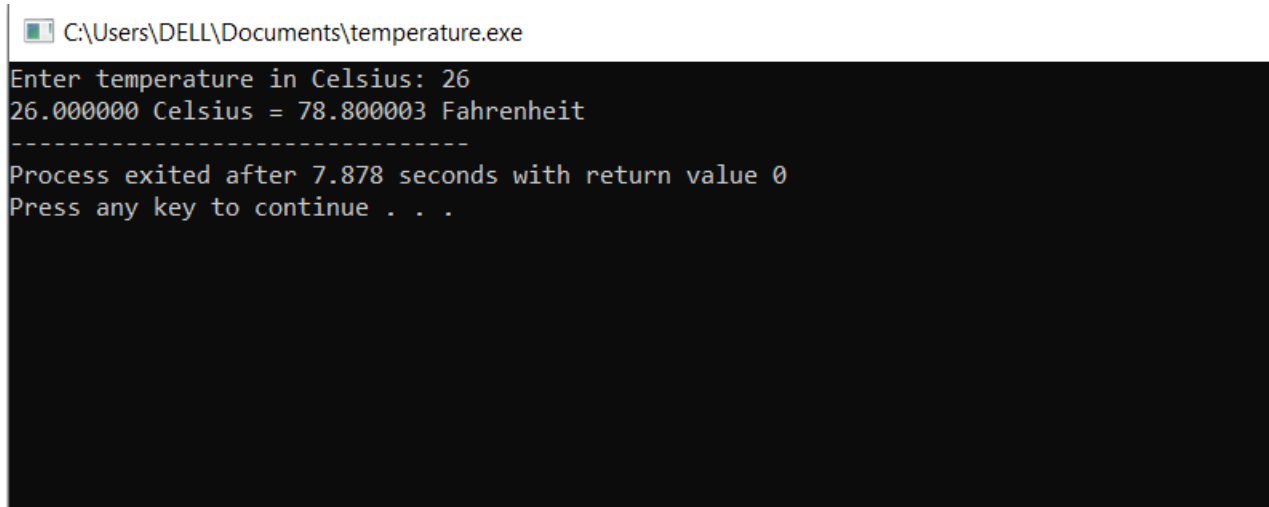
    scanf("%f", &celsius);

    fahrenheit = (celsius * 9 / 5) + 32;

    printf("%f Celsius = %f Fahrenheit", celsius, fahrenheit);

    return 0;
}
```

Output:



The screenshot shows a Windows command prompt window titled "C:\Users\DELL\Documents\temperature.exe". The user has entered "26" for the temperature in Celsius. The program outputs "26.000000 Celsius = 78.800003 Fahrenheit". Below this, it shows "Process exited after 7.878 seconds with return value 0" and "Press any key to continue . . .".

```
C:\Users\DELL\Documents\temperature.exe
Enter temperature in Celsius: 26
26.000000 Celsius = 78.800003 Fahrenheit
-----
Process exited after 7.878 seconds with return value 0
Press any key to continue . . .
```

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

```
#include <stdio.h>

int main()
{
```

```

    int minute, h, m;

    printf("Input minutes: ");

    scanf("%d", &minute);

    h = (minute/60);

    m = (minute%60);

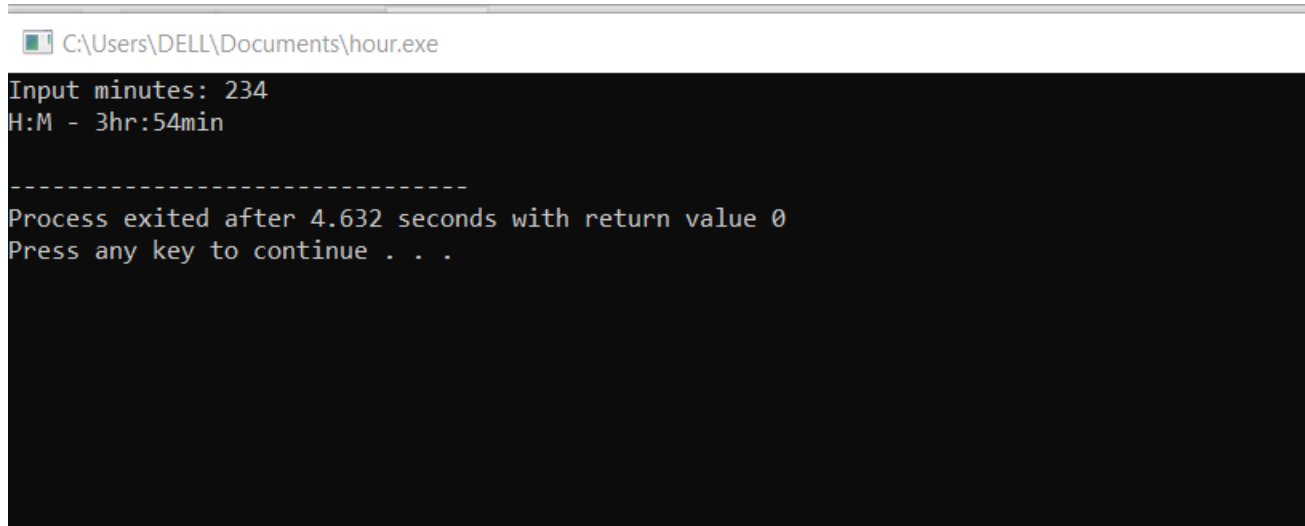
    printf("H:M - %dhr:%dmin\n",h,m);

    return 0;

}

```

Output:



```

C:\Users\DELL\Documents\hour.exe

Input minutes: 234
H:M - 3hr:54min

-----
Process exited after 4.632 seconds with return value 0
Press any key to continue . . .

```

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

```

#include <stdio.h>

int main()

{

    float width,height,perimeter;

    printf("Input width: ");

    scanf("%f", &width);

    printf("input height");

```

```

scanf("%f",&height);

perimeter=2*(width+height);

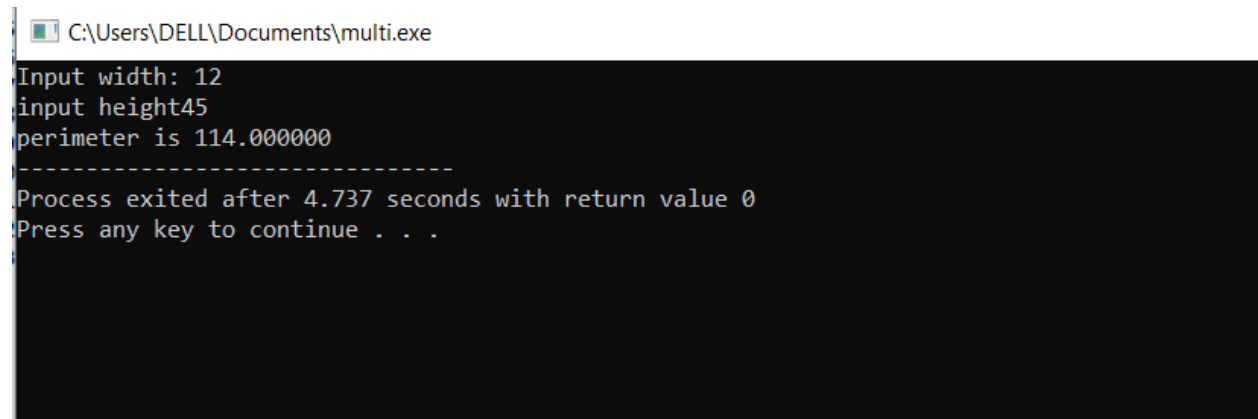
printf("perimeter is %f",perimeter);

return 0;

}

```

Output:



```

C:\Users\DELL\Documents\multi.exe
Input width: 12
input height45
perimeter is 114.000000
-----
Process exited after 4.737 seconds with return value 0
Press any key to continue . . .

```

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

```

#include <stdio.h>

int main()

{

int a = 12,b = 3,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:

```

C:\Users\DELL\Documents\operator.exe
a + b = 15
a / b = 4
c = 4
12 >= 3 is 1
!(a != b) is 0
-----
Process exited after 0.05614 seconds with return value 0
Press any key to continue . . .

```

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

```

#include <stdio.h>

int main() {

int a = 12, b = 25, c = 28, d, i;

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

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

printf("a<<1=%d\n", a<<1);

d=(a>b)?a:b;

printf("the larger no is %d \n", d);


d=(a==b)|| (b>a);

printf("the result is %d", d);

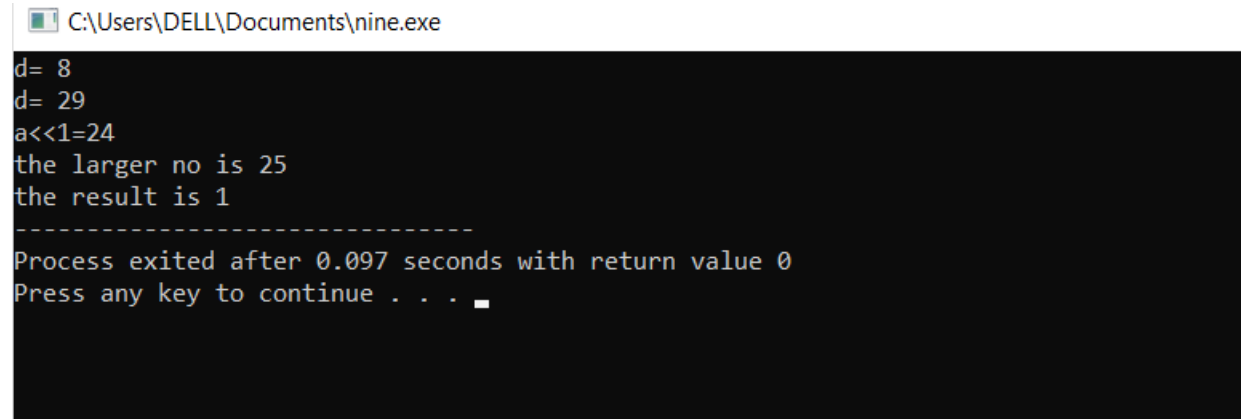
```



```
return 0;
```

```
}
```

Output:



```
C:\Users\DELL\Documents\nine.exe
d= 8
d= 29
a<<1=24
the larger no is 25
the result is 1
-----
Process exited after 0.097 seconds with return value 0
Press any key to continue . . .
```

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

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
int a;
```

```
float b;
```

```
double c;
```

```
char d;
```

```
printf("size of int=%d bytes\n",sizeof(a));
```


```
printf("size of float=%d bytes\n",sizeof(b));
```

```
printf("size of double=%d bytes\n",sizeof(c));
```

```
printf("size of char=%d bytes\n",sizeof(d));
```

```
}
```

Output:

 C:\Users\DELL\Documents\size.exe

```
size of int=4 bytes  
size of float=4 bytes  
size of double=8 bytes  
size of char=1 bytes
```

```
-----  
Process exited after 0.0798 seconds with return value 21  
Press any key to continue . . .
```