


Q:1

main.c	Run	Output
<pre>2 #include <stdio.h> 3 int main() 4 { 5 int a = 125, b = 12345; 6 long ax = 1234567890; 7 short s = 4043; 8 float x = 2.13459; 9 double dx = 1.1415927; 10 char c = 'W'; 11 unsigned long ux = 2541567890; 12 printf("a+c=%d\n", a+c); 13 printf("x+c=%f\n", x+c); 14 printf("dx+x=%f\n", dx+x); 15 printf("a+x=%f\n", a+x); 16 printf("s+b=%d\n", s+b); 17 printf("ax+b=%ld\n", ax+b); 18 printf("s+c=%hd\n", s+c); 19 printf("ax+c=%ld\n", ax+c); 20 printf("ax+ux=%lu\n", ax+ux); 21 return 0;</pre>		<pre>/tmp/ORPP6sWAXi.o 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=3776135780</pre>

Q:2

main.c	Run	Output
<pre>1 2 #include <stdio.h> 3 int main() 4 { 5 int days, years, weeks; 6 printf("enter no of days:"); 7 years = days/365; 8 weeks = (days % 365)/7; 9 days = days - ((years*365) + (weeks*7)); 10 11 printf("Years: %d\n", years); 12 printf("Weeks: %d\n", weeks); 13 printf("Days: %d \n", days); 14 15 return 0; 16 }</pre>		<pre>/tmp/ORPP6sWAXi.o enter no of days:Years: 89 Weeks: 39 Days: 6</pre>

Q:3

<pre>1 #include <stdio.h> 2 int main() 3 { 4 double w1, c1, w2, c2, result; 5 printf("Weight - Item1: "); 6 scanf("%lf", &w1); 7 printf("No. of item1: "); 8 scanf("%lf", &c1); 9 printf("Weight - Item2: "); 10 scanf("%lf", &w2); 11 printf("No. of item2: "); 12 scanf("%lf", &c2); 13 result = ((w1 * c1) + (w2 * c2)) / (c1 + c2); 14 printf("Average Value = %f\n", result); 15 return 0; 16 }</pre>	<pre>/tmp/ORPP6sWAXi.o Weight - Item1: 13 No. of item1: 12 Weight - Item2: 12 No. of item2: 8 Average Value = 12.600000</pre>
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Q:4

<pre>1 #include <stdio.h> 2 int main() 3 { 4 enum week{Sun, Mon, Tue, Wed, Thu, Fri, Sat}; 5 printf("Sun = %d", Sun); 6 printf("\nMon = %d", Mon); 7 printf("\nTue = %d", Tue); 8 printf("\nWed = %d", Wed); 9 printf("\nThu = %d", Thu); 10 printf("\nFri = %d", Fri); 11 printf("\nSat = %d", Sat); 12 return 0; 13 }</pre>	<pre>/tmp/ORPP6sWAXi.o Sun = 0 Mon = 1 Tue = 2 Wed = 3 Thu = 4 Fri = 5 Sat = 6</pre>
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Q:5

<pre>1 #include<stdio.h> 2 int main() 3 { 4 float fahrenheit, celsius; 5 printf("enter temperature in celsius :"); 6 scanf("%f",&celsius); 7 fahrenheit = (celsius*9)/5+32; 8 printf("\n\n Temperature in fahrenheit is: %f",fahrenheit); 9 return (0); 10 }</pre>	<pre>/tmp/ORPP6sWAXi.o enter temperature in celsius :67 Temperature in fahrenheit is: 152.600006</pre>
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Q:6

<pre>1 #include<stdio.h> 2 int main() 3 { 4 int minute; 5 printf("\n enter minute="); 6 scanf("%d",&minute); 7 //hours=minute/60,minute=minute % 60 8 printf("\nentered minute is equivalent to=%d hour,%d minute" 9 ,minute,minute/60,minute%60); 10 11 return 0; 12 }</pre>	<pre>/tmp/ORPP6sWAXi.o enter minute=34 entered minute is equivalent to=34 hour,0 minute</pre>
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Q:7

<pre>1 #include <stdio.h> 2 3 int main() 4 { 5 float length, width, perimeter; 6 7 8 printf("Enter length of the rectangle: "); 9 scanf("%f", &length); 10 printf("Enter width of the rectangle: "); 11 scanf("%f", &width); 12 perimeter = 2 * (length + width); 13 printf("Perimeter of rectangle = %f units ", perimeter); 14 15 return 0; 16 }</pre>	<pre>/tmp/ORPP6sWAXi.o Enter length of the rectangle: 43 Enter width of the rectangle: 5 Perimeter of rectangle = 96.000000 units</pre>
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Q:8

<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 int a = 9, b = 4, c; 6 7 c = a+b; 8 printf("a+b = %d \n", c); 9 c = a/b; 10 printf("a/b = %d \n", c); 11 c %= a; // c = 0 12 printf("c = %d\n", c); 13 printf("%d >= %d is %d \n", a, b, a >= b); 14 c = !(a != b); 15 printf("!(a != b) is %d \n", c); 16 return 0; 17 }</pre>	<pre>/tmp/ZHtBEhCGbH.o a+b = 13 a/b = 2 c = 2 9 >= 4 is 1 !(a != b) is 0</pre>
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Q:9

<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 int a=11,b=5; 6 printf("output=%d",a&b); 7 printf("\noutput=%d",a b); 8 printf("\nRight shift by %d:%d\n",b,a>>b); 9 (a > b) ? a : b;//conditional operator 10 11 printf("the value of 'b' variable is :%d",b); 12 return 0; 13 } 14</pre>	<pre>/tmp/ZHtBEhCGbH.o output=1 output=15 Right shift by 5:0 the value of 'b' variable is :5</pre>
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Q:10

<pre>#include<stdio.h> int main() { int a; float b; double c; char d; // sizeof evaluates the size of a variable printf("Size of int: %lu bytes\n", sizeof(a)); printf("Size of float: %lu bytes\n", sizeof(b)); printf("Size of double: %lu bytes\n", sizeof(c)); printf("Size of char: %lu byte\n", sizeof(d)); return 0; }</pre>	<pre>/tmp/ORPP6sWAXi.o Size of int: 4 bytes Size of float: 4 bytes Size of double: 8 bytes Size of char: 1 byte</pre>
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