

TASK3

- Basic C programming exercises.


Problem 3

main.c	Output
<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 float num1 ,num2; 6 printf("Please enter the first number="); 7 scanf("%f",& num1); 8 printf("Please enter the second number="); 9 scanf("%f",& num2); 10 printf("The summation of %.01f + %.01f =%.01f \n", num1,num2 ,num1+num2); 11 printf("The subtration of %.01f - %.01f =%.01f \n", num1,num2 ,num1-num2); 12 printf("The Product of %.01f * %.01f =%.01f \n", num1,num2 ,num1*num2); 13 printf("The division of %.01f / %.01f =%.01f \n", num1,num2 ,num1/num2); 14 15 return 0; 16 }</pre>	<pre>/tmp/Bq4wL1UeL6.o Please enter the first number=10 Please enter the second number=2 The summation of 10.0 + 2.0 =12.0 The subtration of 10.0 - 2.0 =8.0 The Product of 10.0 * 2.0 =20.0 The division of 10.0 / 2.0 =5.0</pre>


Problem 4

main.c	Output
<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 float length ,breadth; 6 printf("Please enter the length(cm)="); 7 scanf("%f",& length); 8 printf("Please enterthe breadth(cm)="); 9 scanf("%f",& breadth); 10 printf("The area of rectangle is 2*(%.01f + %.01f) =%.01f cm2\n", length,breadth,2*(length+breadth)); 11 12 13 return 0; 14 }</pre>	<pre>/tmp/Bq4wL1UeL6.o Please enter the length(cm)=5 Please enterthe breadth(cm)=2 The area of rectangle is 2*(5.0 + 2.0) =14.0 cm2</pre>

Problem 5

main.c	Run	Output
<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 float length ,breadth; 6 printf("Please enter the length(cm)="); 7 scanf("%f",& length); 8 printf("Please enterthe breadth(cm)="); 9 scanf("%f",& breadth); 10 printf("The area of rectangle is %.01f * %.01f =%.01f cm2\n", length,breadth,length*breadth); 11 12 13 return 0; 14 }</pre>		<pre>/tmp/Bq4WL1UeL6.o Please enter the length(cm)=5 Please enterthe breadth(cm)=2 The area of rectangle is 5.0 * 2.0 =10.0 cm2</pre>

Problem 6

main.c	Run	Output
<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 float rad; 6 printf("Please enter the radius of the circle(cm)="); 7 scanf("%f",& rad); 8 printf("The diameter of the circle is 2* %.01f =%.01f cm\n",rad,2 *rad); 9 printf("The circumference of the circle is 2* 3.14*%.01f =%.01f cm\n",rad,2*3.14*rad); 10 printf("The area of the circle is 3.14*%.01f*%.01f =%.01f cm2\n",rad,rad,3.14*rad*rad); 11 12 return 0; 13 }</pre>		<pre>/tmp/Bq4WL1UeL6.o Please enter the radius of the circle(cm)=2 The diameter of the circle is 2* 2.0 =4.0 cm The circumference of the circle is 2* 3.14*2.0 =12.6 cm The area of the circle is 3.14*2.0*2.0 =12.6 cm2</pre>

Problem 7

main.c	Output
<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 float length; 6 printf("Please enter the legth(cm)="); 7 scanf("%f",& length); 8 printf("The length in meter %.01f/100 =%.01f m\n",length,length 9 /100); 10 printf("The length in kilometer %.01f/1000 =%.01f km\n",length 11 ,length/1000); 12 13 return 0; 14 }</pre>	<pre>/tmp/Bq4wL1UeL6.o Please enter the legth(cm)=100 The length in meter 100.0/100 =1.0 m The length in kilometer 100.0/1000 =0.1 km</pre>

Problem 8

main.c	Output
<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 float temp; 6 printf("Please enter the temperature(celeius)="); 7 scanf("%f",& temp); 8 printf("The temperature in fahrenheit %.01f*(9/5)+32 =%.01f f\n" 9 ,temp,temp*(9/5)+32); 10 11 12 return 0; 13 }</pre>	<pre>/tmp/Bq4wL1UeL6.o Please enter the temperature(celeius)=0 The temperature in fahrenheit 0.0*(9/5)+32 =32.0 f</pre>

Problem 10

main.c	Output
<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 int days ,weeks, years; 6 printf("Please enter the numbedr of days="); 7 scanf("%d",& days); 8 years = (days / 365); // Ignoring leap year 9 weeks = (days % 365) / 7; 10 days = days - ((years * 365) + (weeks * 7)); 11 printf("There are %d years, %d weeks, %d days \n",years,weeks ,days); 12 13 14 15 return 0; 16 }</pre>	<pre>/tmp/Bq4wL1UeL6.o Please enter the numbedr of days=366 There are 1 years, 0 weeks, 1 days</pre>

Problem 11

main.c	Output
<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 float num ,exp; 6 printf("Please enter the number="); 7 scanf("%f",& num); 8 printf("Please enter the exponent="); 9 scanf("%f",& exp); 10 11 printf("%.01f ^ %.01f = %.01f", num,exp,pow(num,exp)); 12 13 14 return 0; 15 }</pre>	<pre>/tmp/Bq4wL1UeL6.o Please enter the number=5 Please enter the exponent=2 5.0 ^ 2.0 = 25.0</pre>

Problem 12

main.c	Run	Output
<pre> 1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 float num ; 6 printf("Please enter the number="); 7 scanf("%f",& num); 8 9 printf("the squire root of %.01f = %.01f", num,sqrt(num)); 10 11 12 return 0; 13 } </pre>		<pre> /tmp/Bq4wL1UeL6.o Please enter the number=25 the squire root of 25.0 = 5.0 </pre>

Problem 16

main.c	Run	Output
<pre> 1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 float sub1,sub2,sub3,sub4,sub5 ,sum; 6 printf("Please enter the degree of first subject="); 7 scanf("%f",& sub1); 8 printf("Please enter the degree of second subject="); 9 scanf("%f",& sub2); 10 printf("Please enter the degree of third subject="); 11 scanf("%f",& sub3); 12 printf("Please enter the degree of fourth subject="); 13 scanf("%f",& sub4); 14 printf("Please enter the degree of Fifth subject="); 15 scanf("%f",& sub5); 16 sum =sub1+sub2+sub3+sub4+sub5; 17 18 printf("the total = %.01f\n",sum); 19 printf("the average = %.01f\n",sum/5); 20 printf("the persentage = %.01f\n", (sum/500)*100); 21 22 23 return 0; 24 } </pre>		<pre> /tmp/Bq4wL1UeL6.o Please enter the degree of first subject=50 Please enter the degree of second subject=50 Please enter the degree of third subject=50 Please enter the degree of fourth subject=50 Please enter the degree of Fifth subject=50 the total = 250.0 the average = 50.0 the persentage = 50.0 </pre>

I am a little bit confused with Bitwise operator exercises.