

Ex 1 bmi calculation

main.c	Output
<pre>1 #include<stdio.h> 2 int main() { 3 float weight; 4 float height; 5 printf("enter weight: \n"); 6 scanf("%f",&weight); 7 printf("enter height: \n"); 8 scanf("%f",&height); 9 float BMI = weight/(height*height); 10 printf("BMI: %.2f \n",BMI); 11 return 0; 12 } 13 }</pre>	<pre>enter weight: 43 enter height: 5 BMI: 1.72 === Code Execution Successful ===</pre>

Ex 2 discount of product

main.c	Output
<pre>1 #include<stdio.h> 2 #define discount_ratio 0.10 3 int main() { 4 float price; 5 printf("enter price \n"); 6 scanf("%f",&price); 7 float discount= price*discount_ratio; 8 float discounted= price-discount; 9 printf("discounted: %.2f \n",discounted); 10 return 0; 11 } 12 }</pre>	<pre>enter price 8000 discounted: 7200.000000 === Code Execution Successful ===</pre>

Ex 3 currency conversion

main.c	Output
<pre>1 #include<stdio.h> 2 #define exchange_ratio 1.10 3 int main() { 4 float usd; 5 printf("enter amount in usd \n"); 6 scanf("%f",&usd); 7 float eur= usd*exchange_ratio; 8 printf("equivalent amount: %.2f \n",eur); 9 return 0; 10 } 11 }</pre>	<pre>enter amount in usd 10 equivalent amount: 11.000000 === Code Execution Successful ===</pre>

Ex 4 attendance per

main.c	Output
<pre>1 #include<stdio.h> 2 int main() { 3 float attended,total; 4 printf("enter no. of class attended and total \n"); 5 scanf("%f %f",&attended,&total); 6 7 float attendance= (attended/(float)total)*100; 8 printf("interest:%2f \n",attendance); 9 return 0; 10 11 }</pre>	<pre>enter no. of class attended and total 66 73 interest.90.410957 === Code Execution Successful ===</pre>

Ex 5 interest calculation

main.c	Output
<pre>1 #include<stdio.h> 2 #define interest_ratio 0.05 3 int main() { 4 float principal,time; 5 printf("enter principal and time\n"); 6 scanf("%f %f",&principal,&time); 7 8 float interest= principal * interest_ratio * time; 9 printf("interest:%2f \n",interest); 10 return 0; 11 12 }</pre>	<pre>enter principal and time 5 8 interest.2.000000 === Code Execution Successful ===</pre>

Ex 6 fuel efficiency

main.c	Output
<pre>1 #include<stdio.h> 2 int main() { 3 float fuel, distance; 4 printf("enter the fuel \n"); 5 scanf("%f",&fuel); 6 printf("enter distance \n"); 7 scanf("%f",&distance); 8 float efficiency= distance /fuel; 9 printf("fuel efficiency:%2f \n",efficiency); 10 return 0; 11 12 }</pre>	<pre>enter the fuel 70 enter distance 100 fuel efficiency.1.428571 === Code Execution Successful ===</pre>

Ex 7 exam grade

main.c	Output
<pre>1 2 #include <stdio.h> 3 int main(){ 4 float hour,rate; 5 printf("enter the no. of hours \n"); 6 scanf("%f",&hour); 7 printf("enter the rate \n"); 8 scanf("%f",&rate); 9 float salary = hour*rate; 10 printf("weekly salary:%.2f\n",salary); 11 return 0; 12 }</pre>	<pre>enter the no. of hours 8 enter the rate 9 weekly salary:72.00 === Code Execution Successful ===</pre>

Ex 8 stock price

main.c	Output
<pre>1 2 #include <stdio.h> 3 #define brokerage_charge 0.02 4 int main(){ 5 float price,shares; 6 printf("enter the price \n"); 7 scanf("%f",&price); 8 printf("no. of shares \n"); 9 scanf("%f",&shares); 10 float brokerage = (price*shares)*brokerage_charge; 11 float totalcost = (price*shares)*brokerage; 12 printf("total cost:%.2f\n",totalcost); 13 return 0; 14 }</pre>	<pre>enter the price 50 no. of shares 7 total cost:2450.00 === Code Execution Successful ===</pre>

Ex 9 weekly salary

main.c	Output
<pre>5 float marks; 6 printf("enter the mark \n"); 7 scanf("%f",&marks); 8 if (marks >=90){ 9 printf("grade:A \n"); 10 }else if (marks >=80){ 11 printf("grade:B \n"); 12 }else if (marks >=70){ 13 printf("grade:C \n"); 14 }else if (marks >=60){ 15 printf("grade:D \n"); 16 }else if (marks >=50){ 17 printf("grade:E \n"); 18 }else { 19 printf("grade:F \n"); 20 } 21 return 0; 22 }</pre>	<pre>enter the mark 90 grade:A === Code Execution Successful ===</pre>

Ex 10 simple stopwatch program

main.c		Output
<pre>1 2 #include <stdio.h> 3 4 int main(){ 5 float fuel,distance; 6 printf("enter the fuel \n"); 7 scanf("%f",&fuel); 8 printf("enter distance \n"); 9 scanf("%f",&distance); 10 float efficiency = distance / fuel; 11 printf("fuel efficiency:%2f \n"); 12 return 0; 13 }</pre>		<pre>enter the fuel 8 enter distance 10 fuel efficiency:0.000000 === Code Execution Successful ===</pre>