Chapter 1

Q1:

The Errors is underlined.

```
#include "stdio.h"
void main()
{
      float weight ;
      printf ("Enter your weight in pounds ");
      scanf("%f",&weight);
      printf("Your weight in kilograms is %g",
      weight * 0.45359237);
}
```

Q2:

```
#include "stdio.h"


void main(){


      float a,b,c,x=10;


      printf("Enter The Coefficient Of The Quadratic Equation: \n");
   printf("Enter The Quadratic Coefficient: ");
   scanf(" %f",&a);
   printf("Enter The Linear Coefficient: ");
   scanf(" %f",&b);
   printf("Enter The Constant Of Free Term: ");
   scanf(" %f",&c);


      printf("Solution: %lg\n",a*x*x+b*x+c);


      system("pause");
}
```

Q3:

```
#include "stdio.h"

void main(){

	float D_F,D_M;

	printf("Enter a Distance in feet: ");
	scanf(" %f",&D_F);

	D_M = D_F *0.3048;

	printf("Distance in Meter: %g\n",D_M);

	system("pause");
}
```

Q4:

```
#include "stdio.h"

void main(){

	int ASCII;
	printf("Enter an ASCII code: ");
	scanf(" %d",&ASCII);

	printf("Equivalent character: %c\n",ASCII);

	system("pause");
}
```

Q5:

```
#include "stdio.h"

void main(){

	unsigned char ASCII;
	printf("Enter a character: ");
	scanf(" %c",&ASCII);

	printf("Equivalent ASCII Code: %d\n",ASCII);

	system("pause");
}
```

Q6:

```
#include "stdio.h"
#include "math.h"

void main(){

	float x,y,z;
	double solution;
	printf("Enter value of x: ");
	scanf(" %f",&x);
	printf("Enter value of y: ");
	scanf(" %f",&y);
	printf("Enter value of z: ");
	scanf(" %f",&z);
	solution = (x + sqrt(exp(pow(x,0.2))+x*x+y*y*y))/(sin(x/(z*10.5))+pow(z,5.5));
	printf("Solution: %lg\n",solution);
	system("pause");
}
```

Q7:

x= 11 (0000000B)

y= 23 (00000017)

z=-42 (FFFFFFD6)

x or y = 31 (0000001F)

x and y = 3 (00000003)

x xor y = 28 (0000001C)

not z = 41 (00000029)

Q8:

x/y = 7	//bec. X and y are integers
x/y = 7.000000	//bec. Dividing int by int gives an int but the identifier is %f so it shows point //and 6 zeroes due to the precision of float but without any use
x/y =7.500000	//this time int is divided by float so it gives a float
x/y = 7.500000	// y was converted into float by multi it by fraction

Q9:

float(x) = 1.700000
int(x) = 1.000000
ceil(x) = 2.000000
floor(x)= 1.000000