Assignment 1

Q1. Finding F from C (temp).

```c
#include <stdio.h>
int main()
{
        float c = 30;
        float f;

        f = (c*9/5)+32;

        printf("Temperature in fahrenheit is: %.2f",f);
}
```

Q2. Finding area and perimeter of rectangle or circle

```c
#include <stdio.h>
//Finding area and perimeter of rectangle or circle.
int main()
{
        float length = 5, breadth = 3, radius = 4, PI = 3.14159;
        int choice = 1;
        float area, perimeter;

        //Area and perimeter of rectangle
        if(choice == 1){
                area = length*breadth;
                printf("Area of rectangle is: %.2f\n", area);
                perimeter = 2*(length + breadth);
                printf("Perimeter of rectangle is: %.2f", perimeter);
        }else if(choice == 2){
                area = PI*radius*radius;
                printf("Area of circle is: %.2f\n", area);
                perimeter = 2*PI*radius;
                printf("Perimeter of circle is: %.2f", perimeter);
        }

}
```

3. Accept a 3 digit number from user and find the sum of the digits and also reverse the number

```c
#include <stdio.h>
//Accept a 3 digit number from user and find the sum of the digits and also reverse the
number
int main()
{
        int num = 123;
```

```c
        int sum, a, b, c, rev;

        a = num%10;
        num = num/10;
        b = num%10;
        c = num/10;

        sum = a + b + c;

        rev = (a*100) + (b*10) + c;

        printf("Sum of number: %d", sum);
        printf("\nReverse of number: %d", rev);

}
```

4. Check if the given number is even or odd.

```c
#include <stdio.h>
//Check if the given number is even or odd.
int main()
{
        int num = 28;

        if(num%2==0){
                printf("Number is Even");
        }else{
                printf("Number is Odd");
        }
}
```

5. Calculating total salary based on basic. If basic <=5000 da, ta and hra will be 10%,20% and 25% respectively otherwise da, ta and hra will be 15%,25% and 30% respectively.

```c
#include <stdio.h>
int main()
{
        int da, ta, hra;
        int basic = 6000;
        int total_salary;

        if(basic<=5000){
                da = (basic*10)/100;
                ta = (basic*20)/100;
                hra = (basic*25)/100;
        }else{
                da = (basic*15)/100;
```

```c
            ta = (basic*25)/100;
            hra = (basic*30)/100;
        }
    total_salary = basic + da + ta + hra;
    printf("Total Salary: %d", total_salary);
}
```

6. Write a program to check if person is eligible to marry or not (male age >=21 and female age>=18)

```c
#include <stdio.h>
//Write a program to check if person is eligible to marry or not (male age >=21 and female age>=18)
int main()
{
    int age = 17;
    char gender = 'F';

    if(gender == 'M'){
        if(age>=21){
            printf("Male is eligible for marriage");
        }else{
            printf("Male is not eligible for marriage");
        }

    }else if(gender == 'F'){
//          if(gender == 'F'){
        if(age>=18){
            printf("Female is eligible for marriage");
        }else{
            printf("Female is not eligible for marriage");
        }
    }

}
```