Assignment 1

//1. Finding F from C (temp)

```c
#include<stdio.h>
void main(){
    int c=18;
    float f;
    f=(c*1.8)+32;


    printf("Conversion of F to C will be %3f",f);
}
```

//2. Finding area and perimeter of rectangle or circle.

```c
#include<stdio.h>
void main(){
    int r=3;
    float area ,per;
    area =(3.14*r*r);
    per=2*(3.14*r);


    printf("Area Will be :%f\n",area);
    printf("Perimeter will be :%f",per);
}
```

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

```c
#include<stdio.h>
void main(){
    int num =123;
    int r1,r2,q1,q2,sum,reverse;


    r1=num%10;
    q1=num/10;
```

```c
   r2=q1%10;
   q2=q1/10;


   sum=r1+r2+q2;
  // reverse=r1,r2,q2;


   printf("Sum of Digit :%d",sum);
   printf("\nReverse of Digit :%d%d%d",r1,r2,q2);
}
```

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

```c
#include<stdio.h>
void main(){
   int num=15;
   if(num%2==0){
      printf("%d will be even",num);
   }
   else{
      printf("%d will be odd",num);
   }
}
```

//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>
void main(){
   int basic_sal=7000;
   float total_sal,da,ta,hra;
```

```c
        if(basic_sal<=5000){

            da=(basic_sal*10)/100;

            ta=(basic_sal*20)/100;

            hra=(basic_sal*25)/100;

        }

        else{

            da=(basic_sal*15)/100;

            ta=(basic_sal*25)/100;

            hra=(basic_sal*30)/100;

        }


        total_sal=da+ta+hra;

        printf("Salary Will be %f",total_sal);



}


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


#include <stdio.h>

void main() {

    int male_age = 25;

    int female_age = 19;

    char gender = 'M';


    if (gender == 'M') {

        if (male_age >= 21) {

            printf("Male is eligible to marry.\n");

        } else {

            printf("Male is not eligible to marry.\n");

        }

    } else if (gender == 'F') {

        if (female_age >= 18) {
```

```c
            printf("Female is eligible to marry.\n");
        } else {
            printf("Female is not eligible to marry.\n");
        }
    } else {
        printf("Invalid gender.\n");
    }
}
```