

Assignment 1

// 1. Finding F from C (temp).

```
#include <stdio.h>
```

```
int main() {
```

```
    double celsius, fahrenheit;
```

```
    printf("Enter temperature in Celsius: ");
```

```
    scanf("%lf", &celsius);
```

```
    fahrenheit = (celsius * 9 / 5) + 32;
```

```
    printf("Temperature in Fahrenheit: %.2lf°F\n", fahrenheit);
```

```
    return 0;
```

```
}
```

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

```
#include <stdio.h>
```

```
void main() {
```

```
    int choice, length, width, radius;
```

```
    printf("Select the no find the area and perimeter\n");
```

```
    printf("1) Rectangle \n2) Circle\n");
```

```
    scanf("%d", &choice);
```

```
    if (choice == 1){
```

```
        printf("Enter the length: ");
```

```
        scanf("%d", &length);
```

```
        printf("Enter the width: ");
```

```
        scanf("%d", &width);
```

```
        int area = length * width;
```

```
        int perimeter = 2 * (length + width);
```

```
        printf("The area of a rectangle is: %d \nThe perimete of a rectangle is %d", area,  
perimeter);
```

```
    } else if (choice == 2){
```

```
int pai = 3.14;
```

```
printf("Enter the radius: ");
```

```
scanf("%d", &radius);
```

```
int area = pai * (radius * radius);
```

```
int perimeter = 2 * pai * radius;
```

```
printf("The area of a circle is: %d \nThe perimete of a circle is %d", area, perimeter);
```

```
}else {
```

```
    printf("Invalid Choice");
```

```
}
```

```
}
```

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

```
#include <stdio.h>
```

```
void main() {
```

```
    int no, n1, n2, n3, sum;
```

```
    printf("Enter the no: ");
```

```
    scanf("%d", &no);
```

```
    if (no > 99 && no < 1000) {
```

```
        printf("Your no %d is accepted\n", no);
```

```
        n1 = no / 100;
```

```
        no = no % 100;
```

```
        n2 = no / 10;
```

```
        no = no % 10;
```

```
        n3 = no;
```

```
        printf("\nn1: %d \nn2: %d \nn3: %d\n", n1, n2, n3);
```

```
        sum = n1 + n2 + n3;
```

```
        printf("the sum of digit is: %d\n", sum);
```

```
printf("\n%d\n%d\n%d\n", n3, n2, n1);
```

```
} else {
```

```
    printf("the no is not three digit ");
```

```
}
```

```
}
```

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

```
#include <stdio.h>
```

```
void main() {
```

```
    int no;
```

```
    printf("Enter the no check even or odd: ");
```

```
    scanf("%d", &no);
```

```
    if (no % 2 == 0) {
```

```
        printf("Your no %d is even", no);
```

```
    } else {
```

```
        printf("Your no %d is odd", no);
```

```
    }
```

```
}
```

// 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.

```
#include <stdio.h>
```

```
int main() {
```

```
    double basic, da, ta, hra, totalSalary;
```

```
    printf("Enter Basic Salary: ");
```

```
    scanf("%lf", &basic);
```

```
    if (basic <= 5000) {
```

```
        da = basic * 0.10;
```

```
        ta = basic * 0.20;
```

```
        hra = basic * 0.25;
```

```
    } else {
```

```
        da = basic * 0.15;
```

```
        ta = basic * 0.25;
```

```
        hra = basic * 0.30;
```

```
    }
```

```
    totalSalary = basic + da + ta + hra;
```

```
    printf("Total Salary: %.2lf\n", totalSalary);
```

```
    return 0;
```

```
}
```

// 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, female;
```

```
    printf("Enter the male age: ");
```

```
    scanf("%d", &male);
```

```
    printf("Enter the female age: ");
```

```
    scanf("%d", &female);
```

```
    if (male > 21) {
```

```
        printf("Male is eligible for marriage\n");
```

```
    } else {
```

```
        printf("Male not eligible\n");
```

```
    }
```

```
    if (female > 18) {
```

```
        printf("Female is eligible for marriage\n");
```

```
    } else {
```

```
        printf("Female not eligible\n");
```

```
    }
```

```
}
```