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#include <stdio.h>
int main()
{
    int ward,rate,days,disc;
    float bill=0.0;
    printf("HOSPITAL WARD\n");
    printf("1.GENERAL\n 2.SEMI-PRIVATE\n 3.PRIVATE\n");
    printf("Enter the days admitted:\n");
    scanf("%d",&days);
    printf("Enter the type:\n");
    scanf("%d",&ward);
    switch(ward)
    {
        case 1:
        {
            int rate=1000,days;
            float disc;
            printf("Enter the number of days spent:\n");
            scanf("%d",&days);
            rate*=days;
            if(days>7)
            {
                disc=rate*0.05;
            }

            printf("Rate is %d\n",rate);
            printf("Discount is %.2f\n",disc);

            break;
        }
        case 2:
        {
            int rate=2000,days;
            float disc;
            printf("Enter the number of days:\n");
            scanf("%d",&days);
            rate*=days;
            if(days>7)
            {
                disc=rate*0.05;
            }

            printf("Rate is %d\n",rate);
            printf("Discount is %.2f\n",disc);
        }
    }
}

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        break;
    }
    case 3:
    {
        int rate=5000,days;
        float disc;
        printf("Enter the number of days:\n");
        scanf("%d",&days);
        rate*=days;
        if(days>7)
        {
            disc=rate*0.05;
        }

        printf("Rate is %d\n",rate);
        printf("Discount is %.2f\n",disc);
        break;
    }
}
printf("Ward type=%d\n",ward);
printf("Days admitted=%d\n",days);
printf("Discount applied=%.2f\n",disc);
return 0;
}

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#include<stdio.h>
int main() {
    int first, second, temp;
    printf("Enter first number: ");
    scanf("%d", &first);
    printf("Enter second number: ");
    scanf("%d", &second);
    temp = first;
    first = second;
    second = temp;
    printf("After swapping, first number = %d\n", first);
    printf("After swapping, second number = %d\n", second);
    return 0;
}

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#include<stdio.h>
#include<string.h>

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void reverse(char *str){
    int len,k;
    char reverse[100];
    len=strlen(str);
    k=len;
    k--;
    for(int i=0;i<len;i++){
        reverse[k]=str[i];
        k--;
    }
    printf("The reversed string is: %s",reverse);
}

int main(){
    char str[100];
    printf("Enter the string:\n");
    scanf("%s",str);
    printf("The given string is: %s\n",str);
    reverse(str);
    return 0;
}

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#include<stdio.h>
int factorial(int n)
{
    int fact = 1, i;
    for (i = 1; i <= n; i++)
    {
        fact *= i;
    }
    return fact;
}

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int main()
{
    int n=9;
    int fact = factorial(n);
    printf("Factorial of %d is %d", n, fact);
    return 0;
}

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#include <stdio.h>
float celsius_to_fahrenheit(float celsius) {

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    return (celsius * 9/5) + 32;
}
float fahrenheit_to_celsius(float fahrenheit) {
    return (fahrenheit - 32) * 5/9;
}
float celsius_to_kelvin(float celsius) {
    return celsius + 273.15;
}
int main()
{
    int choice;
    float temperature, result;

    printf("Temperature Conversion\n");
    printf("1. Celsius to Fahrenheit\n");
    printf("2. Fahrenheit to Celsius\n");
    printf("3. Celsius to Kelvin\n");
    printf("Enter your choice: ");
    scanf("%d", &choice);

    switch(choice) {
        case 1:
            printf("Enter temperature in Celsius: ");
            scanf("%f", &temperature);
            result = celsius_to_fahrenheit(temperature);
            printf("%.2f°C = %.2f°F\n", temperature, result);
            break;

        case 2:
            printf("Enter temperature in Fahrenheit: ");
            scanf("%f", &temperature);
            result = fahrenheit_to_celsius(temperature);
            printf("%.2f°F = %.2f°C\n", temperature, result);
            break;

        case 3:
            printf("Enter temperature in Celsius: ");
            scanf("%f", &temperature);
            result = celsius_to_kelvin(temperature);
            printf("%.2f°C = %.2fK\n", temperature, result);
            break;

        default:
            printf("Invalid choice!\n");
    }
}

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}
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    return 0;
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}
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