CEW LAB SESSION 1:

EXAMPLE 1:

int main() {

int employeeID;

float hoursWorked, hourlyRate, salary;

printf("Enter employee's ID: ");

scanf("%d", &employeeID);

printf("Enter total worked hours in a month: ");

scanf("%f", &hoursWorked);

printf("Enter amount received per hour: ");

scanf("%f", &hourlyRate);

salary = hoursWorked \* hourlyRate;

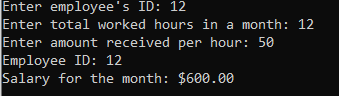
printf("Employee ID: %d\n", employeeID);

printf("Salary for the month: $%.2f\n", salary);

return 0;

}

OUTPUT:



EXAMPLE 2:

int main() {

double height, width;

double perimeter, area;

printf("Enter the height of the rectangle: ");

scanf("%lf", &height);

printf("Enter the width of the rectangle: ");

scanf("%lf", &width);

perimeter = 2 \* (height + width);

area = height \* width;

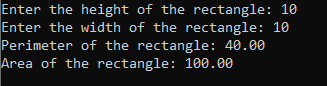
printf("Perimeter of the rectangle: %.2lf\n", perimeter);

printf("Area of the rectangle: %.2lf\n", area);

return 0;

}

OUTPUT:



EXAMPLE 3:

int main() {

double height;

printf("Enter the height of the person in centimeters: ");

scanf("%lf", &height);

if (height < 150) {

printf("Dwarf\n");

} else if (height == 150) {

printf("Average\n");

} else if (height >= 165) {

printf("Tall\n");

} else {

printf("Average\n");

}

return 0;

}

OUTPUT:



EXAMPLE 4:

void decimalToBinary(int n) {

if (n == 0) {

return;

} else {

decimalToBinary(n / 2);

printf("%d", n % 2);

}

}

int main() {

int decimalNumber;

printf("Enter a decimal number: ");

scanf("%d", &decimalNumber);

if (decimalNumber < 0) {

printf("Please enter a non-negative decimal number.\n");

} else {

printf("Binary representation: ");

if (decimalNumber == 0) {

printf("0");

} else {

decimalToBinary(decimalNumber);

}

printf("\n");

}

return 0;

}

OUTPUT:



EXAMPLE 5:

int fibonacci(int n) {

if (n <= 1) {

return n;

}

return fibonacci(n - 1) + fibonacci(n - 2);

}

void printFibonacciSeries(int n) {

if (n < 1) {

printf("Invalid input. Please enter a positive integer.\n");

return;

}

printf("Fibonacci Series up to the %dth number: ", n);

for (int i = 0; i < n; i++) {

printf("%d", fibonacci(i));

if (i < n - 1) {

printf(", ");

}

}

printf("\n");

}

int main() {

int n;

printf("Enter the value of n to calculate the nth Fibonacci number: ");

scanf("%d", &n);

printFibonacciSeries(n);

return 0;

}

OUTPUT:

