Q1

#include <stdio.h>

int main() {

double salary, tax;

printf("Enter your yearly salary: ");

scanf("%lf", &salary);

if (salary <= 400000) {

tax = salary \* 0.01;

} else if (salary <= 1000000) {

tax = 4000 + (salary - 400000) \* 0.15;

} else {

tax = 4000 + 90000 + (salary - 1000000) \* 0.25;

}

printf("Tax to be paid: %.2lf\n", tax);

return 0;

}

Q(2)

#include <stdio.h>

int main() {

int customerID, unitConsumed;

float chargesPerUnit, totalBill, surcharge, netAmount;

char customerName[50];

// Prompt for customer details

printf("Enter Customer ID: ");

scanf("%d", &customerID);

printf("Enter Customer Name: ");

scanf("%s", customerName);

printf("Enter Units Consumed: ");

scanf("%d", &unitConsumed);

// Determine charges per unit based on consumption

if (unitConsumed <= 300) {

chargesPerUnit = 1.75;

} else if (unitConsumed <= 600) {

chargesPerUnit = 2.00;

} else if (unitConsumed <= 800) {

chargesPerUnit = 3.00;

} else {

chargesPerUnit = 4.00;

}

// Calculate total bill

totalBill = unitConsumed \* chargesPerUnit;

// Apply surcharge if bill exceeds Kshs 500

if (totalBill > 500) {

surcharge = totalBill \* 0.2;

netAmount = totalBill + surcharge;

} else {

netAmount = totalBill;

}

// Ensure minimum bill is Kshs 200

if (netAmount < 200) {

netAmount = 200; }

// Display output

printf("\nCustomer ID: %d\n", customerID);

printf("Customer Name: %s\n", customerName);

printf("Units Consumed: %d\n", unitConsumed);

printf("Charges per Unit: %.2f Ksh\n", chargesPerUnit);

printf("Total Amount to Pay: %.2f Ksh\n", netAmount);

return 0;

}

Q3

#include <stdio.h>//fixed the include directive

int main() {//Fixed the main function declaration

int number;

printf("Enter an integer number: ");//Fixed the printf statement and added a colon for clarity

scanf("%d", &number);// Fixed the scanf format specifier

if (number < 100) {// Fixed the if condition

printf("Your number is smaller than 100.\n");//Fixed the printf statement and logic

}else{

printf("Your number contains more than two digits.\n");//Corrected the message for clarity and correctnes

}

return 0;//Added return ststatement

}