Q1. #include<stdio.h>

int main(){

float num1,num2,highest\_number;

printf("Enter the first number: ");

scanf("%f",&num1);

printf("Enter the second numberb");

scanf("%f",&num2);

if (num1 > num2)

highest\_number = num1;

else

highest\_number = num2;

printf("The Highsest is: %.1f\n",highest\_number);

return 0;

}

Q2. #include<stdio.h>

int main()

{

int num1,num2,num3;

int max, min;

printf("Enter the first number: ");

scanf("%d",&num1);

printf("Enter the second number: ");

scanf("%d",&num2);

printf("Enter thre third number: ");

scanf("%d",&num3);

printf ("\n");

max = num1;

if (num2 > max)

max = num2;

if (num3 > max)

max = num3;

min = num1;

if (num2 < min)

min = num2;

if (num3 < min)

min = num3;

printf("The largest number is %d\n", max);

printf("The smallest number is %d\n", min);

return 0;

}

Q3. #include <stdlib.h>

int main()

{

char name[15];

float basic\_salary, new\_salary;

printf("Enter employee name: ");

scanf("%s", &name);

printf("Enter employee basic salary: ");

scanf("%f", &basic\_salary);

printf("\n");

if (basic\_salary >= 10000) {

new\_salary = basic\_salary + (basic\_salary \* 15 / 100);

}

else if (basic\_salary < 10000 && basic\_salary >= 5000) {

new\_salary = basic\_salary + (basic\_salary \* 10 / 100);

}

else if (basic\_salary < 5000) {

new\_salary = basic\_salary + (basic\_salary \* 5 / 100);

}

printf("%s new salary is %.2f\n", name, new\_salary);

return 0;

}

Q4. #include <stdio.h>

int main()

{

float radius, pie = 3.14159; // Declare the variables

printf("Enter circle radius: "); // User output and get user input

scanf("%f", &radius);

printf("\n"); // Skip a line for cleanliness

printf("Circle diameter: %.2f units\n", radius \* 2); // Process in printf statement

printf("Circumference of circle: %.4f units\n", 2 \* pie \* radius); // Process in printf statement

printf("Area of circle: %.4f square units\n", pie \* radius, radius); // Process in printf statement

return 0;

}

Q5. #include <stdio.h>

int main()

{

int num1, num2;

printf("Enter first number: ");

scanf("%d", &num1);

printf("Enter second number: ");

scanf("%d", &num2);

printf("\n");

if (num1 % num2 == 0) {

printf("%d is a multiple of %d\n.", num1, num2);

}

else {

printf("%d is not a multiple of %d\n.", num1, num2);

}

return 0;

Q6. #include <stdio.h>

int main() {

char upperCaseLetter;

char lowerCaseLetter;

char digit;

char specialCharacter;

char newline; // To consume the newline character

// Find Uppercase ASCII value

printf("Enter an uppercase letter: ");

scanf(" %c", &upperCaseLetter);

int asciiValue1 = (int) upperCaseLetter;

printf("The ASCII value of %c is %d\n", upperCaseLetter, asciiValue1);

// Find Lowercase ASCII value

printf("Enter a lowercase letter: ");

scanf(" %c", &lowerCaseLetter);

int asciiValue2 = (int) lowerCaseLetter;

printf("The ASCII value of %c is %d\n", lowerCaseLetter, asciiValue2);

// Find Digits ASCII value

printf("Enter a digit: ");

scanf(" %c", &digit);

int asciiValue3 = (int) digit;

printf("The ASCII value of %c is %d\n", digit, asciiValue3);

// Find Special character ASCII value

printf("Enter a special character: ");

scanf(" %c", &specialCharacter);

int asciiValue4 = (int) specialCharacter;

printf("The ASCII value of %c is %d\n", specialCharacter, asciiValue4);

return 0;

}

Q7. float basic\_salary, allowance, bonus;

float monthly\_sales, gross\_salary;

int years\_of\_service;

char city;

// Get input values from the user

printf("Enter the basic salary: ");

scanf("%f", &basic\_salary);

printf("Enter the monthly sales: ");

scanf("%f", &monthly\_sales);

printf("Enter the years of service: ");

scanf("%d", &years\_of\_service);

printf("Enter the city (C for Colombo): ");

scanf("%c", &city);

// Calculate additional allowance based on years of service

if (years\_of\_service >= 5) {

allowance = 0.1 \* basic\_salary;

}

else {

allowance = 0;

}

// Calculate additional allowance based on city

if (city == 'C') {

allowance += 2500;

}

// Get monthly sales and calculate bonus

printf("Enter rhe monthly sales: ");

scanf("%f", &monthly\_sales);

if (monthly\_sales < 25000) {

bonus = 0.1 \* monthly\_sales;

}

else if (monthly\_sales >= 25000 && monthly\_sales < 50000) {

bonus = 0.12 \* monthly\_sales;

}

else if (monthly\_sales >= 50000) {

bonus = 0.15 \* monthly\_sales;

}

// Calculate gross salary

gross\_salary = basic\_salary + allowance + bonus;

// Output the gross salary

printf("Gross monthly remuneration: Rs. %.2f\n", gross\_salary);

return 0;

}