1.

#include <stdio.h>

int main() {

int n1, n2;

printf("Enter two numbers: ");

scanf("%d %d", &n1, &n2);

int largest = n1 > n2 ? n1 : n2;

// Display the highest number

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

return 0;

}

2.

#include <stdio.h>

int main() {

int n1, n2, n3, largest, smallest;

printf("Enter three numbers: ");

scanf("%d %d %d", &n1, &n2, &n3);

largest = num1;

smallest = num1;

if (n2 > largest) {

largest = n2;

}

if (n3 > largest) {

largest = n3;

}

if (n2 < smallest) {

smallest = n2;

}

if (n3 < smallest) {

smallest = n3;

}

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

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

return 0;

}

3.

#include <stdio.h>

int main() {

char employeeName[50];

double basicSalary, newSalary, increment;

printf("Enter employee name: ");

scanf("%s", employeeName);

printf("Enter basic salary: ");

scanf("%lf", &basicSalary);

if (basicSalary < 5000) {

increment = 0.05 \* basicSalary;

} else if (basicSalary >= 5000 && basicSalary < 10000) {

increment = 0.10 \* basicSalary;

} else {

increment = 0.15 \* basicSalary;

}

newSalary = basicSalary + increment;

printf("Employee Name: %s\n", employeeName);

printf("New Salary: %.2lf\n", newSalary);

return 0;

}

4.

#include <stdio.h>

int main() {

float radius;

float diameter, circumference, area;

printf("Enter the radius of the circle: ");

scanf("%f", &radius);

diameter = 2 \* radius;

circumference = 2 \* 3.14159 \* radius;

area = 3.14159 \* radius \* radius;

printf("Diameter: %f\n", diameter);

printf("Circumference: %f\n", circumference);

printf("Area: %f\n", area);

return 0;

}

5.

#include <stdio.h>

int main() {

int 1\_number, 2\_number;

printf("Enter two numbers: ");

scanf("%d %d", &1 number, &2\_number);

if (1\_number % 2\_number == 0) {

printf("%d is a multiple of %d\n", 1t\_number, 2\_number);

} else {

printf("%d is not a multiple of %d\n", 1\_number, 2\_number);

}

return 0;

}

6.

#include <stdio.h>

int main() {

printf("A = %d\n", 'A');

printf("B = %d\n", 'B');

printf("C = %d\n", 'C');

printf("a = %d\n", 'a');

printf("b = %d\n", 'b');

printf("c = %d\n", 'c');

printf("0 = %d\n", '0');

printf("1 = %d\n", '1');

printf("2 = %d\n", '2');

printf("$ = %d\n", '$');

printf("\* = %d\n", '\*');

printf("+ = %d\n", '+');

printf("/ = %d\n", '/');

printf("blank character = %d\n", ' ');

return 0;

}

7.

#include <stdio.h>

int main() {

float basicSalary, additionalAllowance = 0, bonusPercentage = 0, monthlySales, bonus = 0, grossRemuneration;

printf("Enter the basic salary: ");

scanf("%f", &basicSalary);

printf("Enter the monthly sales: ");

scanf("%f", &monthlySales);

if (monthlySales >= 0 && monthlySales <= 25000) {

bonusPercentage = 10;

} else if (monthlySales > 25000 && monthlySales <= 50000) {

bonusPercentage = 12;

} else if (monthlySales > 50000) {

bonusPercentage = 15;

}

printf("Is the salesman working in Colombo? (Y/N): ");

char location;

scanf(" %c", &location);

if (location == 'Y' || location == 'y') {

additionalAllowance = 2500;

}

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

int yearsOfService;

scanf("%d", &yearsOfService);

if (yearsOfService > 5) {

additionalAllowance += 0.1 \* basicSalary;

}

bonus = (bonusPercentage / 100) \* monthlySales;

grossRemuneration = basicSalary + additionalAllowance + bonus;

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

return 0;

}