Operators, If Conditions

1. #include <stdio.h>

int main() {

int num1, num2;

printf("Enter the first number: ");

scanf("%d", &num1);

printf("Enter the second number: ");

scanf("%d", &num2);

if (num1 > num2) {

printf("The highest number is: %d\n", num1);

} else if (num2 > num1) {

printf("The highest number is: %d\n", num2);

} else {

printf("Both numbers are equal.\n");

}

2. #include <stdio.h>

int main() {

int num1, num2, num3;

int largest, smallest;

printf("Enter the first number: ");

scanf("%d", &num1);

printf("Enter the second number: ");

scanf("%d", &num2);

printf("Enter the third number: ");

scanf("%d", &num3);

largest = smallest = num1;

if (num2 > largest) {

largest = num2;

}

if (num3 > largest) {

largest = num3;

}

if (num2 < smallest) {

smallest = num2;

}

if (num3 < smallest) {

smallest = num3;

}

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

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

}

3. #include <stdio.h>

int main() {

char employeeName[50];

float basicSalary, newSalary, increment;

printf("Enter employee name: ");

scanf("%s", employeeName);

printf("Enter basic salary: ");

scanf("%f", &basicSalary);

if (basicSalary < 5000) {

increment = 0.05 \* basicSalary;

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

increment = 0.1 \* basicSalary;

} else {

increment = 0.15 \* basicSalary;

}

newSalary = basicSalary + increment;

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

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

}

4. #include <stdio.h>

#define PI 3.14159

int main() {

float radius, diameter, circumference, area;

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

scanf("%f", &radius);

diameter = 2 \* radius;

circumference = 2 \* PI \* radius;

area = PI \* radius \* radius;

printf("Diameter: %.2f\n", diameter);

printf("Circumference: %.2f\n", circumference);

printf("Area: %.2f\n", area);

}

5. #include <stdio.h>

int main() {

int num1, num2;

printf("Enter the first integer: ");

scanf("%d", &num1);

printf("Enter the second integer: ");

scanf("%d", &num2);

if (num2 != 0 && 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);

}

}

6. #include <stdio.h>

int main() {

printf("Integer equivalents of uppercase letters:\n");

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

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

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

printf("Integer equivalents of lowercase letters:\n");

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

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

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

printf("Integer equivalents of digits:\n");

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

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

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

printf("Integer equivalents of special symbols:\n");

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

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

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

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

printf("Blank character: %d\n", ' ');

}