**Day 1**

1. Write a C program to add two integers.

#include <stdio.h>

int main() {

int a, b, sum;

printf("Enter two integers: ");

scanf("%d %d", &a, &b);

sum = a + b;

printf("Sum = %d\n", sum);

return 0;

}

2. Write a program to swap two numbers using a temporary variable.

#include <stdio.h>

int main() {

int a, b, temp;

printf("Enter two numbers: ");

scanf("%d %d", &a, &b);

temp = a;

a = b;

b = temp;

printf("After swapping: a = %d, b = %d\n", a, b);

return 0;

}

3. Write a program to swap two numbers without using a temporary variable.

#include <stdio.h>

int main() {

int a, b;

printf("Enter two numbers: ");

scanf("%d %d", &a, &b);

a = a + b;

b = a - b;

a = a - b;

printf("After swapping: a = %d, b = %d\n", a, b);

return 0;

}

4. Write a program to find the ASCII value of a character.

#include <stdio.h>

int main() {

char ch;

printf("Enter a character: ");

scanf(" %c", &ch);

printf("ASCII value of %c = %d\n", ch, ch);

return 0;

}

5. Write a program to calculate the area and perimeter of a rectangle.

#include <stdio.h>

int main() {

float length, width, area, perimeter;

printf("Enter length and width: ");

scanf("%f %f", &length, &width);

area = length \* width;

perimeter = 2 \* (length + width);

printf("Area = %.2f, Perimeter = %.2f\n", area, perimeter);

return 0;

}

6. Write a program to compute the simple interest.

#include <stdio.h>

int main() {

float principal, rate, time, si;

printf("Enter principal, rate and time: ");

scanf("%f %f %f", &principal, &rate, &time);

si = (principal \* rate \* time) / 100;

printf("Simple Interest = %.2f\n", si);

return 0;

}

7. Write a program to convert temperature from Celsius to Fahrenheit.

#include <stdio.h>

int main() {

float celsius, fahrenheit;

printf("Enter temperature in Celsius: ");

scanf("%f", &celsius);

fahrenheit = (celsius \* 9 / 5) + 32;

printf("Fahrenheit = %.2f\n", fahrenheit);

return 0;

}

8. Write a program to find the quotient and remainder of two integers.

#include <stdio.h>

int main() {

int dividend, divisor, quotient, remainder;

printf("Enter dividend and divisor: ");

scanf("%d %d", &dividend, &divisor);

quotient = dividend / divisor;

remainder = dividend % divisor;

printf("Quotient = %d, Remainder = %d\n", quotient, remainder);

return 0;

}

9. Write a program to check whether a number is even or odd.

#include <stdio.h>

int main() {

int num;

printf("Enter a number: ");

scanf("%d", &num);

if(num % 2 == 0)

printf("Even\n");

else

printf("Odd\n");

return 0;

}

10. Write a program to calculate the square and cube of a number.

#include <stdio.h>

int main() {

int num;

printf("Enter a number: ");

scanf("%d", &num);

printf("Square = %d, Cube = %d\n", num \* num, num \* num \* num);

return 0;

}