***Practical 01***

**01)**#include <stdio.h>

int main()

{

printf("Didulaka Hirusha Yapa \n");

printf("Ananda Sastralaya \n");

return 0;

}

**02)** #include <stdio.h>

int main()

{

printf("\*\n");

printf("\*\*\n");

printf("\*\*\*\n");

printf("\*\*\*\*\n");

printf("\*\*\*\*\*\n");

return 0;

}

**03)** #include <stdio.h>

int main()

{

int i;

float f;

double d;

char c;

printf("Enter an integer: ");

scanf("%d", &i);

printf("Enter a float: ");

scanf("%f", &f);

printf("Enter a double: ");

scanf("%lf", &d);

printf("Enter a character: ");

scanf(" %c", &c);

printf("Integer: %d\n", i);

printf("Float: %f\n", f);

printf("Double: %lf\n", d);

printf("Character: %c\n", c);

return 0;

}

**04)** #include <stdio.h>

int main() {

int num1, num2, total;

printf("Enter the first integer: ");

scanf("%d", &num1);

printf("Enter the second integer: ");

scanf("%d", &num2);

total = num1 + num2;

printf("Total: %d\n", total);

return 0;

}

**05)** #include <stdio.h>

int main()

{

float num1, num2, average;

printf("Enter the first number: ");

scanf("%f", &num1);

printf("Enter the second number: ");

scanf("%f", &num2);

average = (num1 + num2) / 2;

printf("Average: %f\n", average);

return 0;

}

**06)** #include <stdio.h>

int main() {

char name[50];

int birthYear, currentYear, age;

printf("Enter student name: ");

scanf("%s", name);

printf("Enter birth year: ");

scanf("%d", &birthYear);

printf("Enter current year: ");

scanf("%d", &currentYear);

age = currentYear - birthYear;

printf("Student: %s\n", name);

printf("Age: %d\n", age);

return 0;

}

**07)** #include <stdio.h>

int main() {

int num1, num2, temp;

printf("Enter the first number: ");

scanf("%d", &num1);

printf("Enter the second number: ");

scanf("%d", &num2);

printf("Before swap: num1 = %d, num2 = %d\n", num1, num2);

temp = num1;

num1 = num2;

num2 = temp;

printf("After swap: num1 = %d, num2 = %d\n", num1, num2);

return 0;

}

**08)** #include<stdio.h>

main()

{

printf("The color: %s\n", "blue");

printf("First number: %d\n", 12345);

printf("Second number: %04d\n", 25);

printf("Third number: %i\n", 1234);

printf("Float number: %3.2f\n", 3.14159);

printf("Hexadecimal: %x\n", 255);

printf("Octal: %o\n", 255);

printf("Unsigned value: %u\n", 150);

printf("Just print the percentage sign %%\n", 10);

}

***Practical 02***

**01)** #include <stdio.h>

int main()

{

int age

printf("HI, HOW OLD ARE YOU? \n");

scanf("%d", &age)

printf("\nWELCOME %d\n", age);

printf("LET'S BE FRIENDS!\n");

return 0;

}

**02)** #include <stdio.h>

int main()

{

printf("%5d%5d\n", 1, 2); //Right Align

printf("%5d%5d\n", 10, 20); //Right Align

printf("\n\n\n");

printf("%-5d%-5d\n", 1, 2); //Left Align

printf("%-5d%-5d\n", 10, 20); //Left Align

return 0;

}

**03)** #include <stdio.h>

int main()

{

float distance, time, speed;

printf("Enter the distance traveled (in meters): ");

scanf("%f", &distance);

printf("Enter the time taken (in seconds): ");

scanf("%f", &time);

speed = distance / time;

printf("Average speed: %.2f m/s\n", speed);

    return 0;

}

**04)** #include <stdio.h>

int main()

{

float fahrenheit, celsius;

printf("Enter temperature in degrees Fahrenheit: ");

scanf("%f", &fahrenheit);

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

printf("Temperature in degrees Celsius: %.2f\n", celsius);

   return 0;

}