**Practical 01 student id = 30022**

01.

#include <stdio.h>

#include <stdlib.h>

int main()

{

char name[20], sclname [20];

printf("Enter your name ");

scanf("%s",&name);

printf("Enter your school name ");

scanf("%s",&sclname);

printf("Name %s \n",name);

printf("School name %s \n",sclname);

}

02.

#include <stdio.h>

#include <stdlib.h>

int main()

{

printf("\* \n");

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

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

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

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

}

03.

#include <stdio.h>

int main()

{

int intValue;

float floatValue;

double doubleValue;

char charValue;

printf("Enter an integer value: ");

scanf("%d", &intValue);

printf("Enter a floating-point value: ");

scanf("%f", &floatValue);

printf("Enter a double value: ");

scanf("%lf", &doubleValue);

printf("Enter a character value: ");

scanf(" %c", &charValue);

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

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

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

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

return 0;

}

04

#include <stdio.h>

int main() {

int num1, num2, sum;

printf("Enter the first integer: ");

scanf("%d", &num1);

printf("Enter the second integer: ");

scanf("%d", &num2);

sum = num1 + num2;

printf("The total is: %d\n", sum);

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) / 2.0;

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

}

06.

#include <stdio.h>

int main()

{

char name[50];

int birthYear;

int currentYear;

int age;

printf("Enter the student's name ");

scanf("%s", name);

printf("Enter the student's birth year ");

scanf("%d", &birthYear);

printf("Enter the current year ");

scanf("%d", &currentYear);

age = currentYear - birthYear;

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

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

}

07.

#include <stdio.h>

int main()

{

int no1, no2, temp;

printf("Enter the first number: ");

scanf("%d", &no1);

printf("Enter the second number: ");

scanf("%d", &no2);

printf("Before swap\n");

printf("First number %d\n", no1);

printf("Second number %d\n", no2);

temp = no1;

no1=no2;

no2 = temp;

printf("After swap\n");

printf("First number %d\n", no1);

printf("Second number %d\n", no2);

}

08. code uses printf function to print various values with different format specifiers. It showcases how different specifiers can be used to format and print different types of values.