

# UNIVERSITY OF SINDH LAAR CAMPUS BADIN

**ASSIGNMENT**

**OF**

**Fundamental Programming C Language**

## Assignment

**FOP**

NAME OF STUDENT Fiza Nohrio

Roll No 2K23/BLCS/20

ASSIGNMENT FOP

TEACHER NAME Dr Kirshan Kumar

UNIVERSITY OF SINDH LAAR CAMPUS BADIN

QNo.1 Write a c program to print your name father's name age and grade?

Ans:

```
#include <stdio.h>

int main() {
    char name[] = "FizaNohrio";
    char fatherName[] = "Iddress";
    int age = 20;
    char grade = 'A';

    printf("Name: %s\n", name);
    printf("Father's Name: %s\n", fatherName);
    printf("Age: %d\n", age);
    printf("Grade: %c\n", grade);

    return 0;
}
```

QNo.2 Write a c program that ask the user to enter two integer number and print the sum and product of two given number?

Ans:

```
#include <stdio.h>

int main() {
    int num1, num2, sum, product;

    printf("Enter the first integer: ");
    scanf("%d", &num1);

    printf("Enter the second integer: ");
    scanf("%d", &num2);

    sum = num1 + num2;
    product = num1 * num2;

    printf("Sum: %d\n", sum);
    printf("Product: %d\n", product);

    return 0;
}
```

QNo.3 Write a c program that ask the user to enter **Basic Pay** and print **Pay-slip** of the Employee?

Ans:

```
#include <stdio.h>

int main() {
    float basicPay, da, hra, grossPay;

    printf("Enter the basic pay: ");
    scanf("%f", &basicPay);

    // Calculate Dearness Allowance (DA) at 40% of the basic pay
    da = 0.4 * basicPay;

    // Calculate House Rent Allowance (HRA) at 20% of the basic pay
    hra = 0.2 * basicPay;

    // Calculate the gross pay
    grossPay = basicPay + da + hra;

    // Print the payslip
    printf("\n***** Pay Slip *****\n");
    printf("Basic Pay: %.2f\n", basicPay);
    printf("Dearness Allowance (DA): %.2f\n", da);
    printf("House Rent Allowance (HRA): %.2f\n", hra);
    printf("Gross Pay: %.2f\n", grossPay);
    printf("*****\n");

    return 0;
}
```

QNo.4 Write a c program to print Square and Cube of given number?

Ans:

```
#include <stdio.h>

int main() {
    int number, square, cube;

    printf("Enter a number: ");
    scanf("%d", &number);

    square = number * number;
    cube = number * number * number;

    printf("Square: %d\n", square);
    printf("Cube: %d\n", cube);

    return 0;
}
```

QNo.5 Write a c program to convert a given amount in coin?

Ans:

```
#include<stdio.h>

void main()
{
    int amount,hundrand,fifty,ten;
    clrscr();
    printf("Enter your amount");
    scanf("%d",&amount);
    ten=amount/10;
    ten=amount%10;
    printf("\nThese ten are in your amount = %d",ten);
    fifty=amount/50;
    fifty=amount%50;
    printf("\nThese fifty are in your amount = %d",fifty);
    hundrand=amount/100;
    hundrand=amount%100;
    printf("\nThese hundrands are in your amount = %d",hundrand);
    getch();
}
```

QNo:7 take two input from user and calculate the sum, product, difference, division, and reminder of two number?

Ans:

```
#include <stdio.h>

int main() {
    int num1, num2;
```

```

printf("Enter the first number: ");
scanf("%d", &num1);

printf("Enter the second number: ");
scanf("%d", &num2);

int sum = num1 + num2;
int product = num1 * num2;
int difference = num1 - num2;
float division = (float)num1 / num2; // Typecast to float for accurate division
int remainder = num1 % num2;

printf("Sum: %d\n", sum);
printf("Product: %d\n", product);
printf("Difference: %d\n", difference);
printf("Division: %.2f\n", division);
printf("Remainder: %d\n", remainder);

return 0;
}

```

QNo:8 Write c program to convert given second into hours, minutes and second?

Ans:

```

#include <stdio.h>

void convertSeconds(int seconds, int *hours, int *minutes, int *remainingSeconds) {

*hours = seconds / 3600; // Calculate the number of hours
*minutes = (seconds % 3600) / 60; // Calculate the number of minutes
*remainingSeconds = seconds % 60; // Calculate the remaining seconds
}

int main() {
    int totalSeconds, hours, minutes, remainingSeconds;

    printf("Enter the total number of seconds: ");
    scanf("%d", &totalSeconds);

    convertSeconds(totalSeconds, &hours, &minutes, &remainingSeconds);

    printf("Time: %d hours, %d minutes, %d seconds\n", hours, minutes, remainingSeconds);

    return 0;
}

```

QNo:10 Write c program to read two integer N1 and N2 and Swap their value?

Ans:

```
#include <stdio.h>

int main() {
    int value1, value2, temp;

    printf("Enter the first value: ");
    scanf("%d", &value1);

    printf("Enter the second value: ");
    scanf("%d", &value2);

    printf("Before swapping:\n");
    printf("Value 1 = %d\n", value1);
    printf("Value 2 = %d\n", value2);

    temp = value1;
    value1 = value2;
    value2 = temp;

    printf("After swapping:\n");
    printf("Value 1 = %d\n", value1);
    printf("Value 2 = %d\n", value2);

    return 0;
}
```

QNo:12 Write c program to print ASCII Value of given character?

Ans:

```
#include <stdio.h>

int main() {
    char ch;

    printf("Enter a character: ");
    scanf("%c", &ch);

    printf("The ASCII value of '%c' is %d\n", ch, ch);

    return 0;
}
```