**Assignment: 2 Name – Om Pant**

1. Write a program to print unit digit of a given number

Ans-

// 1. Write a program to print unit digit of a given number

#include<stdio.h>

int main(){

    int num,ud;

    printf("Enter a number\n");

    scanf("%d",&num);

    ud = num%10;

    printf("Unit digit of %d is %d",num,ud);

    return 0;

}

1. Write a program to print a given number without its last digit.

Ans-

// 2. Write a program to print a given number without its last digit.

#include<stdio.h>

int main(){

    int num,x;

    printf("Enter a number\n");

    scanf("%d",&num);

    x = num/10;

    printf("Given Number- %d\nNumber Without last digit : %d\n",num,x);

    return 0;

}

1. Write a program to swap values of two int variables

// 3.   Write a program to swap values of two int variables

#include<stdio.h>

int main(){

    int num1,num2,x;

    printf("Enter two numbers\n");

    scanf("%d%d",&num1,&num2);

    printf("Numbers Before Swapping\n");

    printf("Number-1: %d\nNumber-2: %d\n",num1,num2);

    x = num1;

    num1 = num2;

    num2 = x;

    printf("\nAfter Swaping\n");

    printf("Number-1: %d\nNumber-2: %d\n",num1,num2);

    return 0;

}

1. Write a program to swap values of two int variables without using a third variable.

Ans-

// 4. Write a program to swap values of two int variables without using a third variable.

#include<stdio.h>

int main(){

    int num1,num2;

    printf("Enter two numbers\n");

    scanf("%d%d",&num1,&num2);

    printf("Numbers Before Swapping\n");

    printf("Number-1: %d\nNumber-2: %d\n",num1,num2);

    num1 = num1 + num2;

    num2 = num1 - num2;

    num1 = num1 - num2;

    printf("\nAfter Swaping\n");

    printf("Number-1: %d\nNumber-2: %d\n",num1,num2);

    return 0;

}

1. Write a program to input a three digit number and display the sum of the digits.

// 5. Write a program to input a three digit number and display the sum of the digits.

#include<stdio.h>

int main(){

    int num,sum=0,temp;

    printf("Enter a number\n");

    scanf("%d",&num);

    temp = num;

    sum += (temp%10);

    temp = temp/10;

    sum += (temp%10);

    temp = temp/10;

    sum += (temp%10);

    temp = temp/10;

    printf("Sum of the digits of Number: %d is: %d\n", num,sum);

    return 0;

}

1. Write a program which takes a character as an input and displays its ASCII code.

// 6. Write a program which takes a character as an input and displays its ASCII code.

#include<stdio.h>

int main(){

    char x;

    printf("Enter a Character\n");

    scanf("%c",&x);

    printf("ASCII Code of %c is: %d\n",x,x);

    return 0;

}

7. Write a program to check whether the given number is even or odd using a bitwise operator.

8. Write a program to print size of an int, a float, a char and a double type variable

Ans-

// 8 Write a program to print size of an int, a float, a char and a double type variable

#include<stdio.h>

int main(){

    printf("Size of int is %d Bytes \n", sizeof(int));

    printf("Size of Float is %d Bytes \n", sizeof(float));

    printf("Size of Char is %d Bytes \n", sizeof(char));

    printf("Size of Double is %d Bytes \n", sizeof(double));

    return 0;

}

9. Write a program to make the last digit of a number stored in a variable as zero. (Example - if x=2345 then make it x=2340)

Ans-

// 9. Write a program to make the last digit of a number stored in a variable as zero. (Example - if x=2345 then make it x=2340)

#include<stdio.h>

int main(){

    int num;

    printf("Enter a number\n");

    scanf("%d",&num);

    num = num/10;

    num = num\*10;

    printf("%d", num);

    return 0;

}

10. Write a program to input a number from the user and also input a digit. Append a digit in the number and print the resulting number. (Example - number=234 and digit=9 then the resulting number is 2349)

Ans-

// 10. Write a program to input a number from the user and also input a digit. Append a digit in the number and print the resulting number. (Example - number=234 and digit=9 then the resulting number is 2349)

#include<stdio.h>

int main(){

    int num, digit;

    printf("Enter a number\n");

    scanf("%d",&num);

    printf("Enter a digit\n");

    scanf("%d",&digit);

    num = num/10;

    num = num\*10 + digit;

    printf("%d", num);

    return 0;

}

11. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and convert it into USD.

Ans-

// 11. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and convert it into USD.

#include <stdio.h>

int main() {

    float inr,usd;

    printf("Enter INR\n");

    scanf("%f",&inr);

    usd = inr/76.23;

    printf("Amount in INR: %.2f\nAmount in USD: %.2f",inr,usd);

    return 0;

}

12. Write a program to take a three digit number from the user and rotate its digits by one position towards the right.

Ans-

//12. Write a program to take a three digit number from the user and rotate its digits by one position towards the right.

#include<stdio.h>

int main(){

    int num,temp;

    printf("Enter a number\n");

    scanf("%d", &num);

    temp = num%10;

    num = num/10;

    temp = temp\*100;

    num = temp + num;

    printf("%d", num);

    return 0;

}