Assignment -2

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

Ans- #include<stdio.h>

int main()

{

    int n,unit;

    printf("Enter the number : ");

    scanf("%d",&n);

    unit = n%10;

    printf("Unit digit of %d is %d",n,unit);

    return 0;

}

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

Ans-#include<stdio.h>

int main()

{

    int n;

    printf("Enter the number : ");

    scanf("%d",&n);

    n = n/10;

    printf("Given number without its last digit is %d",n);

    return 0;

}

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

Ans-#include<stdio.h>

int main()

{

    int num1,num2,temp;

    num1 = 5;

num2 = 10;

    printf("Numbers before swapping are %d & %d\n",num1,num2);

    num2 = num2-num1;

    num1 = num1+num2;

    printf("Numbers after swapping are %d & %d",num1,num2);

    return 0;

}

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

Ans-#include<stdio.h>

int main()

{

    int num1,num2,temp;

    printf("Enter the numbers : ");

    scanf("%d %d",&num1,&num2);

    printf("Numbers before swapping are %d & %d\n",num1,num2);

    temp = num1;

    num1 = num2;

    num2 = temp;

    printf("Numbers after swapping are %d & %d",num1,num2);

    return 0;

}

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

Ans- #include<stdio.h>

int main()

{

    int num1;

    int sum =0;

    printf("Enter three digit number : ");

    scanf("%d",&num1);

    for (int i = 0; i < 3; i++)

    {

        sum = sum + num1%10;

        num1 = num1/10;

    }

    printf("Sum of the digits is %d",sum);

    return 0;

}

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

Ans- #include<stdio.h>

int main()

{

    char word;

    printf("Enter the character : ");

    scanf("%c",&word);

    printf("\nASCII of the character is %d",word);

    return 0;

}

7. Write a program to find the position of first 1 in LSB.

Ans-#include<stdio.h>

int main()

{

    int num,bit,pos =1;

    printf("Enter the number : ");

    scanf("%d",&num);

   while (num!=0)

   {

    bit = num&1;

    if (bit==1)

    {

        break;

    }

    pos++;

    num = num>>1;

   }

    printf("Position of fisrt 1 is %d",pos);

    return 0;

}

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

operator.

Ans-#include<stdio.h>

int main(){

     int n,flag = 0;

     printf("Enter n : ");

     scanf("%d",&n);

     if ((n&1)==0)

        flag = 1;

     if(flag==1)

        printf("Even number");

     else

     printf("Odd number");

    return 0;

}

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

Ans-#include<stdio.h>

int main(){

     int a;

     char c;

     float f;

     double d;

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

     printf("Size of char is : %d\n",sizeof(c));

     printf("Size of float is : %d \n",sizeof(f));

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

    return 0;

}

10. Write a program to make the last digit of a number stored in a variable as zero.

Ans- #include<stdio.h>

int main(){

    int num;

    printf("Enter the number:");

    scanf("%d",&num);

    num=num/10;

    num=num\*10;

    printf("Number is: %d",num);

    return 0;

}

11. 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- #include<stdio.h>

int main(){ int number,digit;

    printf("Enter a number : ");

    scanf("%d",&number);

    printf("Enter a digit : ");

    scanf("%d",&digit);

    number = (number\*10)+digit;

    printf("Required number is %d",number);

    return 0;}

12. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and

convert it into USD.

Ans- #include<stdio.h>

int main(){

    float rupee,USD;

    printf("Enter amount in rupee : ");

    scanf("%f",&rupee);

    USD = rupee/76.23;

    printf("Amount in USD is %f",USD);

    return 0;

}

13. Write a program to take a three-digit number from the user and rotate its digits by

one position towards the right.

Ans- #include<stdio.h>

int main(){

    int n;

    printf("Enter a three digit number : ");

    scanf("%d",&n);

    n = ((n%10)\*100) + n/10;

    printf("%d",n);

    return 0;

}