ASSIGNMENT - 02

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

#include<stdio.h>

int main ()

{

int a;

printf ("Enter a number");

scanf("%d",&a);

printf ("Unit digit of entered number is %d ", a%10);

return 0;

}

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

#include<stdio.h>

int main()

{

int n=2345 , a;

a=n/10;

printf("%d",a);

return 0;

}

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

#include<stdio.h>

int main ()

{ a b c

2

0

3

int a=2; b=3; c=0;

c=a;

a=b;

b=c;

printf ("%d %d” ,a,b);

return 0;

}

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

#include<stdio.h>

int main ()

{

  int a,b;

  printf("enter two numbers :\n");

  scanf("%d%d",&a,&b);

  a=a+b;

  b=a-b;

  a=a-b;

  printf("Swaped values are %d and %d",a,b);

  return 0;

}

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

#include<stdio.h>

int main ()

{

  int n=123, sum=0;

  printf("enter a three digit number\n");

  scanf("%d",&n);

p=n%10;

n=n/10;

sum=sum+p;

p=n%10;

n=n/10;

sum=sum+p;

p=n%10;

n=n/10;

sum=sum+p;

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

 return 0;

}

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

#include<iostream>

using namespace std;

int main ()

{

    char a;

    printf("enter a character \n");

    scanf("%c",&a);

    printf("ASCII code for the character is %d",a);

    return 0;

}

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

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

#include<stdio.h>

int main ()

{

  int a;

  printf("enter  number :\n");

  scanf("%d",&a);

  if(a & 1)

      printf("%d is an odd number",a);

  else

      printf("%d is an Even number",a);

  return 0;

}

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

#include<iostream>

using namespace std;

int main ()

{

    int a=234;

    float b=234.5;

    char c=' ';

    double d=22222.45;

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

    printf("size of float is %d\n" ,sizeof(b));

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

    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. (Example - if x=2345 then make it x=2340)**

#include<stdio.h>

int main ()

{

  int a=2345;

  printf("Enter a number:");

  scanf("%d",&a);

  a=a/10;

  a=a\*10;

  printf("%d",a);

  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).**

#include<stdio.h>

int main ()

{

  int a=2345;

  printf("Enter a number:");

  scanf("%d",&a);

  a=a/10;

  a=a\*10 + 9;

  printf("%d",a);

  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.**

#include <stdio.h>

int main()

{

  float INR, USD;

  printf("\nEnter amount in INR :");

  scanf("%f", &INR);

  USD = INR / 76.23;

  printf("INR %f = %f USD",INR,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.**

#include<stdio.h>

int main ()

{

  int a,p;

  printf("enter a three digit number :\n");

  scanf("%d",&a);

  p=a%10;

  a=p\*100+a/10;

  printf("%d is the rotated number",a);

  return 0;

}