**Assignment-3: Operators in C Language**

Write a program to calculate size of a character constant.

Write a program to calculate size of a real constant.

Write a program with one char type variable. Assign 'A' in the variable. Now change the value of variable from 'A' to 'B' using increment operator.

Write a program to print unit digit of a given number

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

Write a program to swap values of two int variables

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

Write a program to swap values of two int variables without using third variable and without using +, - operators

9. Write a program to swap values of two in variables without using third variable and arithmetic operators.

10. Write a program to swap values of two int variables in single line arithmetic expression.

**1**

#include<stdio.h>

// size of character constant.

int main(){

int x;

x=sizeof(char);

printf("%d",x);

}

**2**

**#include<stdio.h>**

**//size of real conatant.**

**int main(){**

**int x;**

**x=sizeof(7.4);**

**printf("%d",x);**

**}**

**3**

**#include<stdio.h>**

**int main(){**

**char ch='A';**

**++ch;**

**printf("%c",ch);**

**}**

**4**

**#include<stdio.h>**

**int main(){**

**int x;**

**printf("Enter the any no.");**

**scanf("%d",&x);**

**printf("Unit digit of given no. %d",x%10);**

**}**

**5**

#include<stdio.h>

int main(){

int num1,num2,temp;

printf("Enter any two no.");

scanf("%d %d",&num1,&num2);

temp=num1;

num1=num2;

num2=temp;

printf("After swap of given no. %d %d",num1,num2);

}

**6**

**#include<stdio.h>**

**int main(){**

**int num1,num2;**

**printf("Enter any two no.");**

**scanf("%d %d",&num1,&num2);**

**num1=num1+num2;**

**num2=num1-num2;**

**num1=num1-num2;**

**printf("After swap of given no. %d %d ",num1,num2);**

**}**

**7**

**#include<stdio.h>**

**int main(){**

**int num1,num2;**

**printf("Enter any two no.");**

**scanf("%d %d",&num1,&num2);**

**num1=num1+num2;**

**num2=num1-num2;**

**num1=num1-num2;**

**printf("After swap of given no. %d %d ",num1,num2);**

**}**

**8**

**#include<stdio.h>**

**int main(){**

**int num1,num2;**

**printf("Enter any two no.");**

**scanf("%d %d",&num1,&num2);**

**num1=num1\*num2;**

**num2=num1/num2;**

**num1=num1/num2;**

**printf("After swap of given no. %d %d",num1,num2);**

**}**

**9**

**#include<stdio.h>**

**int main(){**

**int num1,num2;**

**printf("Enter any two no.");**

**scanf("%d %d",&num1,&num2);**

**num1=num1^num2;**

**num2=num1^num2;**

**num1=num1^num2;**

**printf("After swap of given no. %d %d",num1,num2);**

**}**

**10**

**#include<stdio.h>**

**int main(){**

**int a,b;**

**printf("Enter any two no.");**

**scanf("%d %d",&a,&b);**

**b=(a+b) - (a=b );**

**printf("After swap of given no %d %d",a,b);**

**}**