

Assignment =2

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

```
#include <stdio.h>
int main()
{
    int x;
    printf("Enter a number : ");
    scanf("%d",&x);
    x=x%10;
    printf("\nThe unit of digit of a number is : %d ",x);
    return 0;
}
```

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

```
#include <stdio.h>
int main()
{
    int x;
    printf("Enter a number : ");
    scanf("%d",&x);
    x=x/10;
    printf("\nThe unit of digit of a number is : %d ",x);
    return 0;
}
```

3. // write a program to swap two variable.

```
#include <stdio.h>
int main()
{
    int x,y,z=0;
    printf("Enter The Value for X and Y : ");
    scanf("%d%d",&x,&y);
    printf("\n Before Swaping the value of X is %d and Y is %d\n",x,y);
    z=x;
    x=y;
}
```

```

        y=z;
        printf("\n After Swaping The Value Of X is %d and Y is %d",x,y);
        return 0;
}

```

4. // write a program to swap two int variable without using third variable.

```

#include <stdio.h>
int main()
{
    int x,y;
    printf("Enter The Value for X and Y : ");
    scanf("%d%d",&x,&y);
    printf("\n Before Swaping the value of X is %d and Y is %d\n ",x,y);
    x=x*y;
    y=x/y;
    x=x/y;
    printf("\n After Swaping The Value Of X is %d and Y is %d",x,y);
    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 x,k=0,n=0;
    printf("Enter the number : ");
    scanf("%d",&x);
    if(x>0)
    {
        n=x%10;
        k=k+n;
        x=x/10;
        n=x%10;
        k=k+n;
        x=x/10;
        n=x%10;
        k=k+n;
        x=x/10;
    }
}

```

```

    }
    printf("sum of digit of a given number is : %d ",k);
}

```

6. //write a program which takes character as an input and display its ASCII code.

```

#include <stdio.h>
int main()
{
    char ch;
    printf("Enter The Character : ");
    scanf("%c",&ch);
    printf("ASCII value of the character is %d",ch);
}

```

7. //program to find the position of 1 in LSB.

```

#include <stdio.h>
int main()
{
    int x,result=0,count=0;
    printf("Enter The Number : ");
    scanf("%d",&x);
    while(x!=0)
    {
        result=1&x;
        count++;
        if(result==1)
        {
            printf("position is %d",count);
            break;
        }
        x=x>>1;
    }
}

```

8. //write a program to find a given number is even or odd using bitwise operator.

```

#include <stdio.h>
int main()
{
    int a;
    printf("Enter The Number for finding odd or Even : ");
    scanf("%d",&a);
    if(a&1)
        printf("\nOdd Number");
    else
        printf("\nEven Number");
}

```

9. //write a program to find the size of int ,float,char and double variable .

```

#include <stdio.h>
int main()
{
    char name;
    printf( "(I or i) for int \n (f or F)for float \n (C or c)for char \n (D or d)for double");
    printf("\n Enter The character you want to see the size of variable : ");
    scanf("%c",&name);
    if(name=='i' || name=='I')
    {
        printf("\n Size of Int variable is %d",sizeof(int));
    }
    if(name=='C' || name=='c')
    {
        printf("\n Size of Char variable is %d",sizeof(char));
    }
    if(name=='F' || name=='f')
    {
        printf("\n Size of Float variable is %d",sizeof(float));
    }
    if(name=='d' || name=='D')
    {
        printf("\n Size of Double Variable is  %d ",sizeof(double));
    }
}

```

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

```

#include <stdio.h>
int main()
{
    int x;
    printf("Enter a number : ");
    scanf("%d",&x);
    x=x/10;
    x=x*10;
    printf("\nThe unit of digit of a number is : %d ",x);
    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.

```

#include <stdio.h>
int main()
{
    int x,y,n,k;
    printf("Enter a number : ");
    scanf("%d",&x);
    printf("Enter the digit : ");
    scanf("%d",&y);
    n=x%10;
    k=x/10;
    x=k*100+n*10+y;
    printf("\nThe unit of digit of a number is : %d ",x);
    return 0;
}

```

12, // Assume that the price of 1 USD is INR 76.23. write a program to take the amount in INR and convert into USD.

```

#include <stdio.h>
int main()
{
    int inr;
    float usd;
    printf("Please enter the amount in INR : ");
    scanf("%d",&inr);
    usd=inr/76.23;
    printf("The USD amount is %.4f",usd);
}

```

```
}
```

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

```
#include <stdio.h>
int main()
{
    int x,k,n,l,m;
    printf("Enter the Three digit number : ");
    scanf("%d",&x);
    m=x%10;
    x=x/10;
    k=x%10;
    x=x/10;
    n=x%10;
    printf("%d%d%d",n,m,k);
}
```