

```
/*
```

Q.1 Write a C program to find sum of first and last digit of a number.

```
*/
```

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int n,last,sum;
```

```
    printf("Enter n = ");
```

```
    scanf("%d",&n);
```

```
    last=n%10;
```

```
    while(n > 10)
```

```
        n=n/10;
```

```
    printf("First digit = %d",n);
```

```
    printf("\nLast digit = %d",last);
```

```
    sum=last+n;
```

```
    printf("\nSum = %d",sum);
```

```
}
```

```
/*
```

Q 2. Write a C program to calculate sum of digits of a number.

```
*/
```

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int n,sum=0,i;
```

```
    printf("Enter n = ");
```

```
    scanf("%d",&n);
```

```
    while(n > 0)
```

```
    {
```

```
        i=n%10;
```

```
        sum=sum+i;
```

```
        n=n/10;
```

```
    }
```

```
    printf("Sum = %d",sum);
```

```
}
```

```
/*
```

Q 3. Write a C program to calculate product of digits of a number.

```
*/
```

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int n,pro=1,i;
```

```
    printf("Enter n = ");
```

```
    scanf("%d",&n);
```

```
    while(n > 0)
```

```
    {
```

```
        i=n%10;
```

```
        pro=pro*i;
```

```
        n=n/10;
```

```
    }
```

```
    printf("Sum = %d",pro);
```

```
}
```

```
/*
```

Q 4. Write a C program to enter a number and print its reverse.

```
*/
```

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int n,i,sum;
```

```
    printf("Enter number n = ");
```

```
    scanf("%d",&n);
```

```
    sum=0;
```

```
    while(n > 0)
```

```
    {
```

```
        i=n%10;
```

```
        sum=sum*10 + i;
```

```
        n=n/10;
```

```
    }
```

```
    printf("Reverse Number = %d",sum);
```

```
}
```

```
/*
```

Q 5. Write a C program to check whether a number is palindrome or not.

```
*/
```

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int n,i,sum,n2;
```

```
    printf("Enter number n = ");
```

```
    scanf("%d",&n);
```

```
    sum=0;
```

```
    n2=n;
```

```
    while(n2 > 0)
```

```
    {
```

```
        i=n2%10;
```

```
        sum=sum*10 + i;
```

```
        n2=n2/10;
```

```
    }
```

```
    if(sum == n)
```

```
        printf("Number is Palindrome.");
```

```
    else
```

```
        printf("Number is Not Palindrome.");
```

```
}
```

```
/*
```

Q 6. Write a C program to find frequency of each digit in a given integer.

```
*/
```

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int n,n1,n2,r1,i,digit,pro,r2,count;
```

```
    printf("Enter n = ");
```

```
    scanf("%d",&n);
```

```
    n1=n;
```

```
    n2=n;
```

```
    digit=0;
```

```
    while(n1 > 0)
```

```
    {
```

```
        n1=n1/10;
```

```
        digit++;
```

```
    }
```

```
    n1=n;
```

```
    pro=1;
```

```
    for(i=1; i<digit ;i++)
```

```
        pro=pro*10;
```

```
    while(pro != 0)
```

```
    {
```

```
        r1=n1/pro;
```

```
n1=n1%pro;
pro=pro/10;
count=0;
while(n2 > 0)
{
    r2=n2%10;
    n2=n2/10;
    if(r1 == r2)
        count++;
}
printf(" %d : ",r1);
printf(" %d \n",count);
n2=n;
}
}
```

```
/*
```

Q 7. Write a C program to enter a number and print it in words.

```
*/
```

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int n,n1,j,div,r1;
```

```
    int i=0;
```

```
    printf("Enter number n = ");
```

```
    scanf("%d",&n);
```

```
    n1=n;
```

```
    div=1;
```

```
    while(n1>0)
```

```
    {
```

```
        n1=n1/10;
```

```
        i++;
```

```
    }
```

```
    for(j=1 ; j<i ; j++)
```

```
        div=div*10;
```

```
    while(n > 0)
```



```
{  
    r1=n/div;  
    n=n%div;  
    div=div/10;  
  
    switch(r1)  
    {  
        case 1:  
            printf("One ");  
            break;  
        case 2:  
            printf("Two ");  
            break;  
        case 3:  
            printf("Three ");  
            break;  
        case 4:  
            printf("Four ");  
            break;  
        case 5:  
            printf("Five ");  
            break;  
        case 6:  
            printf("Six ");
```

```
        break;
    case 7:
        printf("Seven ");
        break;
    case 8:
        printf("Eight ");
        break;
    case 9:
        printf("Nine ");
        break;
    case 0:
        printf("Zero ");
        break;
    }
}
}
```

```
/*
```

Q 8. Write a C program to find power of a number using for loop.

```
*/
```

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int n,p,i,result=1;
```

```
    printf("Enter number n = ");
```

```
    scanf("%d",&n);
```

```
    printf("Enter Power of %d = ",n);
```

```
    scanf("%d",&p);
```

```
    for(i=1;i<=p;i++)
```

```
    {
```

```
        result=result*n;
```

```
    }
```

```
    printf("%d raised to %d = %d",n,p,result);
```

```
}
```

```
/*
```

Q 9. Write a C program to find all factors of a number.

```
*/
```

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int n,i,fact;
```

```
    printf("Enter number n = ");
```

```
    scanf("%d",&n);
```

```
    printf("Factors = 1 ,");
```

```
    for(i=2; i <= n/2 ; i++)
```

```
    {
```

```
        fact=n%i;
```

```
        if(fact == 0)
```

```
            printf("%d ,",i);
```

```
    }
```

```
    printf("%d.",n);
```

```
}
```

```
/*
```

Q 10. Write a C program to calculate factorial of a number.

```
*/
```

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int n,i,fact=1;
```

```
    printf("Enter number n = ");
```

```
    scanf("%d",&n);
```

```
    for(i=n ; i>=1 ; i--)
```

```
    {
```

```
        fact=fact*i;
```

```
    }
```

```
    printf("Factorial of %d = %d",n,fact);
```

```
}
```

```
/*
```

Q 11. Write a C program to find HCF (GCD) of two numbers.

```
*/
```

```
#include<stdio.h>
```

```
void main()
```

```
{
```

```
    int n1,n2,HCF,i,j,flag,small;
```

```
    printf("Enter First number = ");
```

```
    scanf("%d",&n1);
```

```
    printf("Enter Second number = ");
```

```
    scanf("%d",&n2);
```

```
    if(n1 <= n2)
```

```
        small=n1;
```

```
    else
```

```
        small=n2;
```

```
    i=2;
```

```
    HCF=1;
```

```
    while(i <= small)
```

```
    {
```

```
        flag=0;
```

```
        for(j=i ; j<=i/2 ;j++)
```

```
        {
```

```
            if(j%i == 0)
```

```
            {
```

```
        flag==1;
        break;
    }
}
if(flag == 0)
{
    lable:
    if(n1%i == 0 && n2%i == 0)
    {
        HCF=HCF*i;
        n1=n1/i;
        n2=n2/i;
    }
}
if(n1%i != 0 || n2%i != 0)
    i++;
else
    goto lable;
}
printf("HCF = %d",HCF);
}
```