Assignment-9: Use any loop

1. Write a program to calculate sum of first N natural numbers

2. Write a program to calculate sum of first N even natural numbers

3. Write a program to calculate sum of first N odd natural numbers

4. Write a program to calculate sum of squares of first N natural numbers

5. Write a program to calculate sum of cubes of first N natural numbers

6. Write a program to calculate factorial of a number

7. Write a program to count digits in a given number

8. Write a program to check whether a given number is a Prime number or not

9. Write a program to calculate CM of two numbers

10. Write a program to reverse a given number

1

#include<stdio.h>

int main(){

int n,i,sum=0,x;

printf("Enter the no. of line ");

scanf("%d",&n);

for(i=1;i<=n;i++){

sum=sum+i;

}

printf("Sum of line %d\n",sum);

x=sizeof(23.5)

printf("%d",x);

}

2

#include<stdio.h>

int main(){

int n,i,sum=0;

printf("Enter an no. of serise ");

scanf("%d",&n);

printf("\n");

for(i=2;i<=n\*2;i+=2){

printf("%d ",i);

sum=sum+i;

}

printf("\nSum of given even serise %d",sum);

}

3

#include<stdio.h>

int main(){

int n,i,sum=0;

printf("Enter the no. of serise ");

scanf("%d",&n);

printf("\n");

for(i=1;i<=n\*2;i+=2){

printf("%d ",i);

sum=sum+i;

}

printf("\n Sum of given odd serise %d",sum);

}

4

#include<stdio.h>

int main(){

int n,i,m=0;

printf("Enter the no. of line ");

scanf("%d",&n);

for(i=1;i<=n;i++){

printf("%d ",i);

m=m+i\*i;

}

printf(" \nSum of squares of given serise %d",m);

}

5

#include<stdio.h>

int main(){

int n,i,fact=1;

printf("Enter the no. of serise ");

scanf("%d",&n);

for(i=1;i<=n;i++){

fact=fact\*i;

}

printf("Factorial of %d is %d .",n,fact);

}

6

#include<stdio.h>

int main(){

int n,i;

printf("Enter the no.to check prime ");

scanf("%d",&n);

for(i=2;i<n;i++){

if(n%i==0)

break;

}

if(i==n)

printf("%d is prime ",n);

else

printf("%d is not prime",n);

}

7

#include<stdio.h>

int main(){

int n,count;

printf("Enter the no to find digit ");

scanf("%d",&n);

for(count=0;n!=0;n=n/10,count++){

}

printf("\nDigit is %d",count);

}

8

#include<stdio.h>

int main(){

int n,count;

printf("Enter the no to find digit ");

scanf("%d",&n);

for(count=0;n!=0;n=n/10,count++){

}

printf("\nDigit is %d",count);

}

9

#include<stdio.h>

int main(){

int a,b,i=2,l=1,flag=0;

printf("Enter the two no ");

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

while(a>1||b>1){

if(a%i==0){

a=a/i;

flag=1;

}

if(b%i==0){

b=b/i;

flag=1;

}

if(flag==1){

l=l\*i;

flag=0;

}

else

i++;

}

printf("%d and %d LCM is %d",a,b,l);

}

10

#include<stdio.h>

int main(){

int n,i,rev=0;

printf(" Enter the no to find to find reverse ");

scanf("%d",&n);

for(i=1;n!=0;i++){

rev=rev\*10+n%10;

n/=10;

}

printf(" Reverse is %d",rev);

}