Assignment no 6

1. #include<stdio.h>

int main(){

int n,sum=0;

printf("Enter the numbers upto which you want : ");

scanf("%d",&n);

while(n>0){

sum=sum+n;

n--;

}

printf("%d",sum);

return 0;

}

2. #include<stdio.h>

int main(){

int n,sum=0;

printf("Enter the natural numbers : ");

scanf("%d",&n);

for(int i=n;i>0;i--){

sum=sum+i\*2;

}

printf("%d",sum);

return 0;

}

3. #include<stdio.h>

int main(){

int n,sum=0;

printf("Enter the numbers upto which you want the sum of odd numbers : ");

scanf("%d",&n);

while(n>0){

sum=sum+n\*2-1;

n--;

}

printf("%d",sum);

return 0;

}

4. #include<stdio.h>

int main(){

int n,sum=0;

printf("Enter the natural numbers : ");

scanf("%d",&n);

while(n>0){

sum=sum+n\*n;

n--;

}

printf("%d",sum);

return 0;

}

5. #include<stdio.h>

int main(){

int n,sum=0;

printf("Enter the natural numbers : ");

scanf("%d",&n);

while(n>0){

sum=sum+n\*n\*n;

n--;

}

printf("%d",sum);

return 0;

}

6. #include<stdio.h>

int main(){

int f,i;

printf("Enter the number to calculate it's factorial : ");

scanf("%d",&f);

i=f;

do{

i=i\*(f-1);

f--;

}

while(f>1);

printf("%d",i);

return 0;

}

7. #include<stdio.h>

int main(){

int n,count=0;

printf("Enter the number : ");

scanf("%d",&n);

while(n>0){

n=n/10;

count++;

}

printf("%d",count);

return 0;

}

8. #include<stdio.h>

int main(){

int n,i;

printf("Enter a number : ");

scanf("%d",&n);

i=n;

n--;

while(n>i/2){

if(i%n==0){

break;

}

n--;

}

if(i%n==0){

printf("The number is a not prime number");

}

else{

printf("the number is a prime number");

}

return 0;

}

9. #include<stdio.h>

int main(){

int n1,n2,i;

printf("Enter first number and second number : ");

scanf("%d %d",&n1,&n2);

if(n1>n2){

for(i=1;i<=n2;i++){

if(n1\*i%n2==0){

break;

}

}

printf("lcm of %d and %d is %d",n1,n2,n1\*i);

}

else if(n2>n1){

for(i=1;i<=n1;i++){

if(n2\*i%n1==0){

break;

}

}

printf("lcm of %d and %d is %d",n1,n2,n2\*i);

}

else{

printf("The lcm of %d and %d is %d",n1,n2,n1);

}

return 0;

}

10. #include<stdio.h>

int main(){

int t,n,rev,count=1,r;

printf("Enter the number : ");

scanf("%d",&n);

t=n;

while(t>9){

t=t/10;

count=count\*10;

}

while(n>0){

r=(n%10)\*count;

rev=r+rev;

n=n/10;

count=count/10;

}

printf("the reverse of the number is %d",rev);

return 0;

}