ASSIGNMENT -6

Q1.

#include<iostream>

using namespace std;

int main(){

int i=1,n,sum=0;

cout<<"enter the value of n ";

cin>>n;

while(i<=n)

{

sum=sum+i;

i++;

}

cout<<"sum is "<<sum;

return 0;

}

Q2.

#include<iostream>

using namespace std;

int main(){

int i;

int n;

cout<<"enter the value of n";

cin>>n;

int sum=0;

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

sum=sum+2\*i;}

cout<<"sum is"<<sum;

return 0;

}

Q3.

#include<iostream>

using namespace std;

int main(){

int i;

int n;

cout<<"enter the value of n";

cin>>n;

int sum=0;

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

sum=sum+2\*i-1;}

cout<<"sum is"<<sum;

return 0;

}

Q4.

#include<iostream>

using namespace std;

int main(){

int i;

int n;

cout<<"enter the value of n";

cin>>n;

int sum=0;

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

sum=sum+i\*i;}

cout<<"sum is"<<sum;

return 0;

}

Q5.

#include<iostream>

using namespace std;

int main(){

int i;

int n;

cout<<"enter the value of n";

cin>>n;

int sum=0;

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

sum=sum+i\*i\*i;}

cout<<"sum is"<<sum;

return 0;

}

Q6.

#include<iostream>

using namespace std;

int fact(int n){

if(n>1){

return fact(n-1)\*n;}

else

return 1;

}

int main(){

int i,n;

cout<<"enter the number of which you want the factorial";

cin>>n;

cout << "Factorial of " << n << " = " << fact(n);

return 0;}

q7.

#include<iostream>

using namespace std;

int main(){

int n,digits=0;

cout<<"enter the number";

cin>>n;

while(n>0){

n=n/10;

digits=digits+1;

}

cout<<"the number of digitd are"<<digits;

return 0;

}

Q8.

#include<iostream>

using namespace std;

int main(){

int i,n;

cout<<"n";

cin>>n;

if(n==1 || n==0){

cout<<"not a prime number";

}

if(n==2){

cout<<"prime number";

}

if(n>=3 and n%2==0)

{

cout<<" a prime number";

}

if(n>=3 and n%2!=0)

cout<<" a prime number";

return 0;

}

Q9.

#include<iostream>

using namespace std;

int main(){

int a,b,l;

cout<<"enter the numbers of which you want to find the lcm";

cin>>a>>b;

for(l=a>b?a:b;l<=a\*b;l++){

if(l%a==0 && l%b==0){

cout<<"lcm of a and b is"<<l<<endl;

}

}

return 0;

}

Q10.

#include <stdio.h>

int main() {

int n, reverse = 0, remainder;

printf("Enter an integer: ");

scanf("%d", &n);

while (n != 0) {

remainder = n % 10;

reverse = reverse \* 10 + remainder;

n /= 10;

}

printf("Reversed number = %d", reverse);

return 0;

}