**Lab manual 4**

**Lab tasks**

Task 1

#include <iostream>

using namespace std;

int main(){

int c=0;

for(int a=1;a<11;a++){

c=a+c;

cout<<c<<endl;

}

}

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Task 2

#include <iostream>

using namespace std;

int main(){

int a,b,c;

cout<<"Enter the given number :"<<endl;

cin>>a;

for(int b=1;b<11;b++){

cout<<a<<" x "<<b<<"= "<<a\*b<<endl;

}

}

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Task 3

#include <iostream>

using namespace std;

int main(){

int a,c,i;

cout<<"Enter the given number :"<<endl;

cin>>a;

i=a;

for(int b=a-1;b>0;b--){

c=a\*b;

a=c;;

}

cout<<"The factorial of "<<i<<" is: "<<c;

}

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Task 4

#include <iostream>

using namespace std;

int main(){

int a,b,c,d,i;

cout<<"Enter the given number :"<<endl;

cin>>a;

cout<<"1,";

d=0;

i=1;

for(int b=1;b<a;b++){

c=i+d;

d=i;

i=c;

cout<<c<<",";

}

}

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**Home task**

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Task1

#include <iostream>

using namespace std;

int main(){

for(int b=1;b<151;b++){

if(b%10==0){

continue;

}

cout<<b<<endl; }

}

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Task 2

#include <iostream>

using namespace std;

int main(){

int a,b;

cin>>a;

b=0;

while(a>0){

b+=(a%10);

a=a/10;

}

cout<<b;

}

-------------------------------------------------------------------------------------------------------

Task 3

#include<iostream>

using namespace std;

int main(){

int a;

cout<<"enter your desired number";

cin>>a;

for(int i=2;i<=a/2;i++){

if(a%i==0){

cout<<"the entered number is not a prime number ";

return 0;

}

else{

cout<<"The entered number is a prime number";

return 0;

}

}

}