

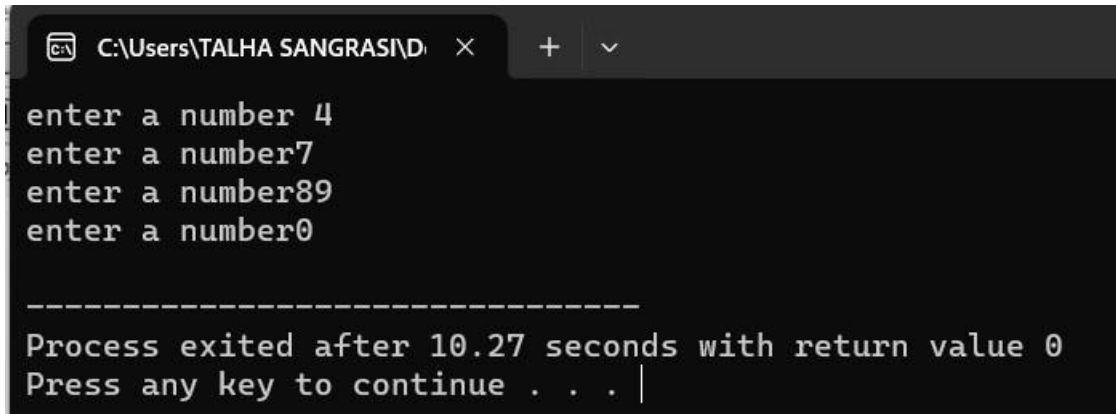
lab task 05

submission

lab task 01

```
#include <iostream>
using namespace std;
int main()
{
    int x=1;
    do {
        cout<<"enter a number";
        cin>>x;
    }
    while(x>0);

}
```



```
C:\Users\TALHA SANGRASI\...  X  +  v

enter a number 4
enter a number 7
enter a number 89
enter a number 0

-----
Process exited after 10.27 seconds with return value 0
Press any key to continue . . . |
```

Lab task 02

```

#include <iostream>

using namespace std; int

main()
{
    double num1,num2,sum,sub,mult,div;  char
operation,decision;

    do{
        cout<<"enter any two numbers you want to perform calculations with ";
        cin>>num1>>num2;
        cout<<"enter"<<endl;  cout<<"a for addition
"<<endl;        cout<<"s for subtraction"<<endl;
        cout<<"m for multiplication"<<endl;    cout<<"d
for division"<<endl;    cin>>operation;

        if (operation=='a'){
            sum=num1+num2;
            cout<<"sum is equal to "<<sum<<endl;
        }
        else if(operation=='s'){
            sub=num1-num2;
            cout<<"subtraction is equal to "<<sub<<endl;
        }
        else if(operation=='m'){
            mult=num1*num2;
            cout<<"multiplication is equal to "<<mult<<endl;
        }
        else if(operation=='d'){
            div=num1/num2;
            cout<<"division is equal to "<<div<<endl;
        }
    }
}

```

```

        cout<<"enter y to perform the task again and n for terminating the task  "<<endl;
cin>>decision;

    }

    while (decision=='y');

}

```

```

C:\Users\TALHA SANGRASI\D...
enter any two numbers you want to perform calculations with 2
4
enter
a for addition
s for subtraction
m for multiplication
d for division
m
multiplication is equal to 8
enter y to perform the task again and n for terminating the task
y
enter any two numbers you want to perform calculations with 8
9
enter
a for addition
s for subtraction
m for multiplication
d for division
a
sum is equal to 17
enter y to perform the task again and n for terminating the task
n

```

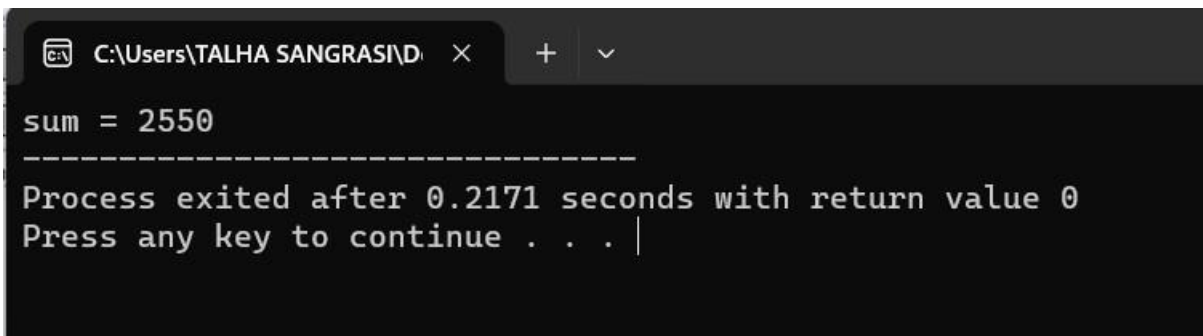
Lab Task 03

```
using namespace std; int
main()
{
    int even = 0;    int number= 2; do{
    even+= number;    number+=2;

}

    while(number<=100);        cout<<"sum =
"<<even;

}
```



```
C:\Users\TALHA SANGRASI\D... × + v
sum = 2550
-----
Process exited after 0.2171 seconds with return value 0
Press any key to continue . . . |
```

Lab task 04

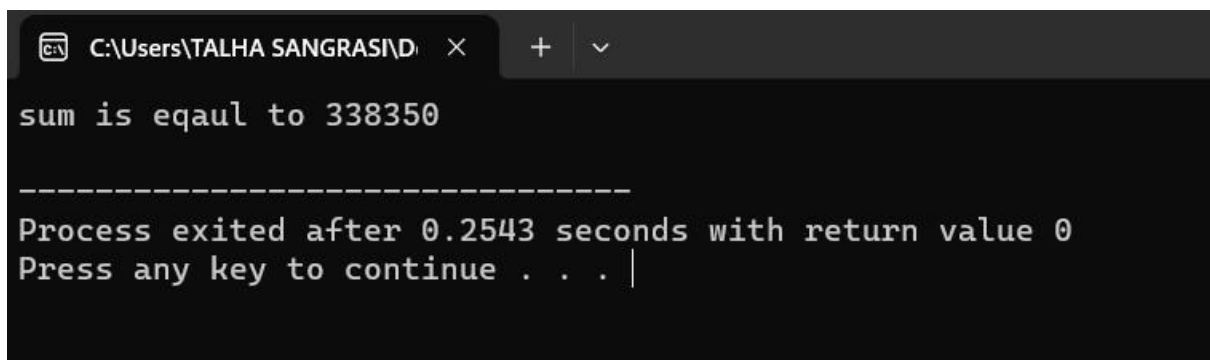
```
using namespace std; int
main()
```

```

{
    int i, sum=0;
    i = 1;
    do{

        sum=sum + (i*i);
        i++;
    }
    while(i<=100);
    cout<<"sum is eqaul to "<<sum<<endl;
}

```



```

C:\Users\TALHA SANGRASI\Documents
sum is eqaul to 338350
-----
Process exited after 0.2543 seconds with return value 0
Press any key to continue . . . |

```

Lab task 05

```

#include <cmath> using
namespace std;

```

```
int main ()
```

```
{
```

```
    int result;
```

```
    double x(2),i(0);
```

```
        do {
```

```
            double result= pow(x,i);
```

```
                cout<<result<<endl;
```

```
                i++;
```

```
        }while(i<=20);
```

```
    return 0;
```

```
}
```

C:\Users\TALHA SANGRASI\D

+

▼

```
1
2
4
8
16
32
64
128
256
512
1024
2048
4096
8192
16384
32768
65536
131072
262144
524288
1.04858e+006
```

```
-----
Process exited after 0.1913 seconds with return value 0
Press any key to continue . . . |
```

Lab Task 06

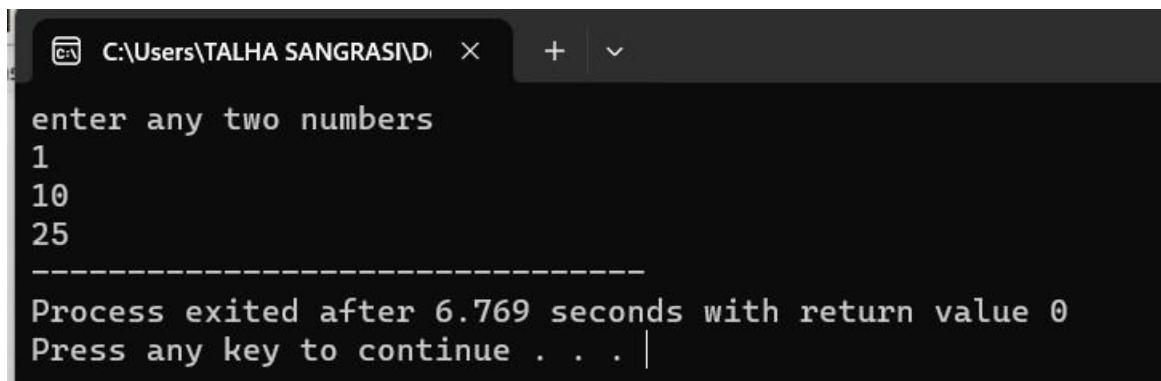
```
#include <iostream> using
namespace std;

int main ()
{
    int num1,num2,sum = 0; cout<<"enter
    any two numbers"<<endl;
    cin>>num1>>num2;

    do{
        if (num1%2 != 0){
            sum += num1;
        }
        num1 ++;
    }while(num1<=num2);

    cout<<sum;

}
```



```
C:\Users\TALHA SANGRASI\...  ×  +  ▾

enter any two numbers
1
10
25
-----
Process exited after 6.769 seconds with return value 0
Press any key to continue . . . |
```


lab Manual 05

Home Tasks

Task 01

```
# include <iostream>
using namespace std;
int main()
{
    int a,b,c;
    cout<< "Enter first no. : ";
    cin>>a;
    cout<< "Enter sec no. : ";
    cin>>b;
    c=a*b;
    while(a!=b)
    {
        if(a>b)
            a=a-b;
        else
            b=b-a;
    }
    cout<< "HCF = " << a<<endl;
    cout<< "LCM = " << c/a<<endl;
    return 0;
}
```

```
C:\Users\TALHA SANGRASI\D  × + v
Enter first no. : 6
Enter sec no. : 9
HCF = 3
LCM = 18

-----
Process exited after 11.47 seconds with return value 0
Press any key to continue . . . |
```

Task 02

```
#include
<iostream>
using
namespace
std;
int main()
{
    int num1,d,s(0),n,t;    cout<<"enter first number of
the arithmetic progression "<<endl;
    cin>>num1;
    cout<<"enter common difference of the arithmetic progression "<<endl;
    cin>>d;
    cout<<"enter the numbers of terms of the arithmetic progression you want to add
"<<endl;
    cin>>n;
    for(t=1;t<=n;t++){

s+=num1;
num1+=d;
}
```

```

cout<<"sum is
"<<s;
}

```

```

C:\Users\TALHA SANGRASI\D... x + v
enter first number of the arithmetic progression
3
enter common difference of the arithmetic progression
3
enter the numbers of terms of the arithmetic progression you want to add
14
sum is 315
-----
Process exited after 2.784 seconds with return value 0
Press any key to continue . . . |

```

Task 03

```

#include
<iostream>
using
namespace
std; int
main()
{   int x,r1,r2,c,u,l,s1,s2,o;
        cout<<"enter the number of rows for the diamond (number should be
odd)"; cin>>x;
        // for upper
rows    u=(x+1)/2;

        for (r1=1;r1<=u;r1++){
for(s1=1;s1<=u-r1;s1++){
                cout<<" ";

        }
        for(o=1; o<=r1*2-1;o++){

```

```

        cout<<" ";

    }

    cout<<endl;

}

//for lower rows

l=x-u;

for(r2=l;r2>=1;r2--){

for(s2=1;s2<=u-r2;s2++){

        cout<<" ";

    }

    for(o=r2*2-1;o>=1;o--){

        cout<<" ";

    }

    cout<<endl;

}

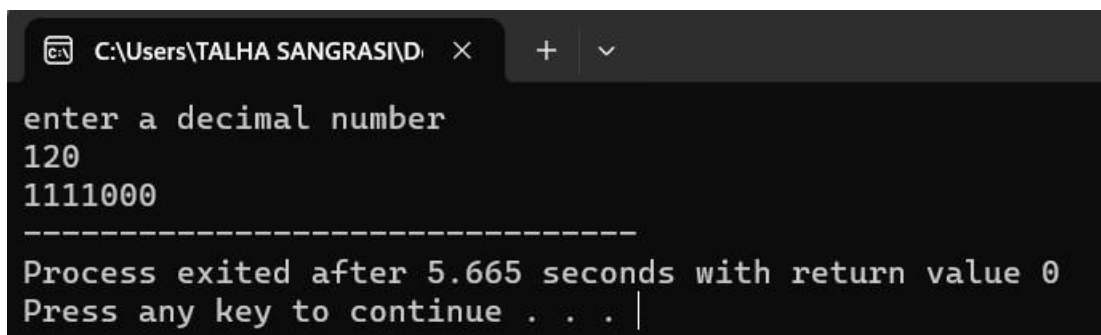
}

```

[illegible]

Task 04

```
#include
<iostream>
using
namespace
std; int
main()
{
    int d,b(0),i(1),r;
    cout<<"enter a decimal number "<<endl;
    cin>>d;
    while(d
!=0)
    {
        b=b+(d%2
)*i;
        d=d/2;
        i=i*10;
    } cout<<b;
}
```



```
C:\Users\TALHA SANGRASI\De... × + v
enter a decimal number
120
1111000
-----
Process exited after 5.665 seconds with return value 0
Press any key to continue . . . |
```

