

MUHAMMAD SIBGHAT RASOOL

457035

ME-15-B

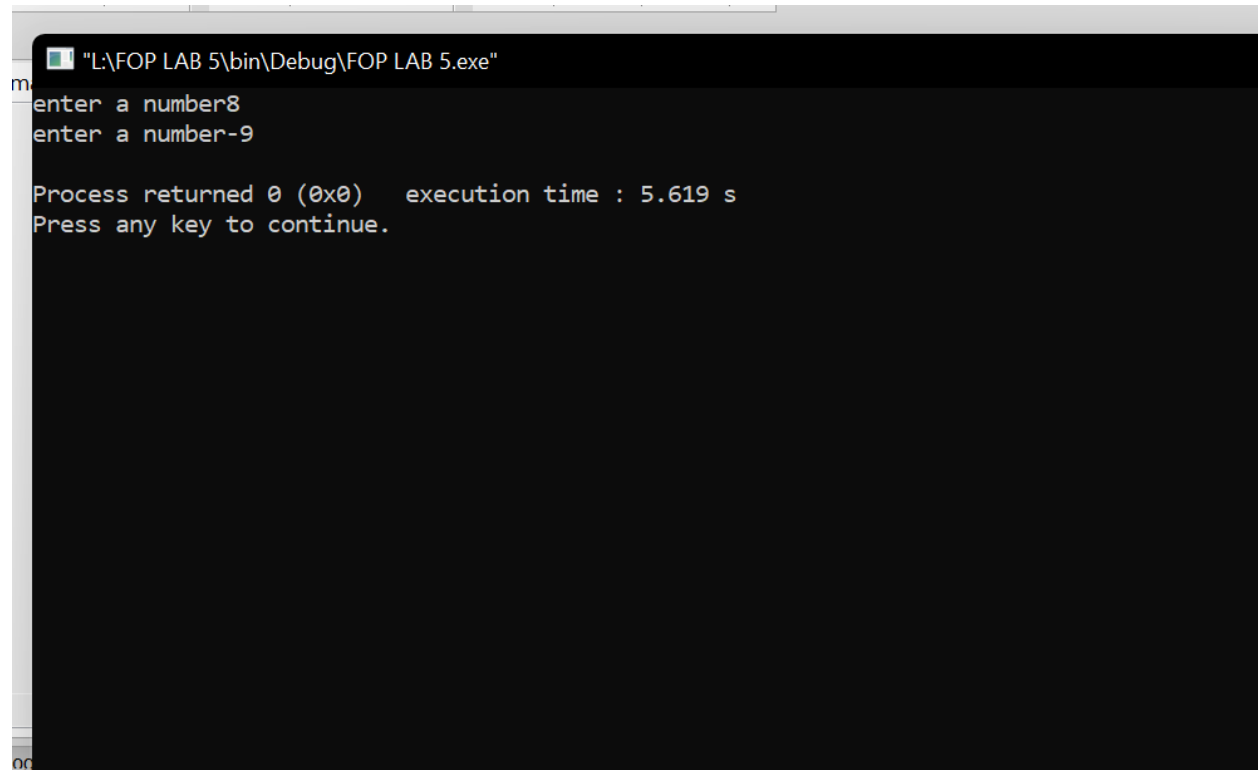
LAB -MANUAL 5

LAB TASK 1:

```
#include <iostream>
```

```
using namespace std;
```

```
int main(){  
    int x=1;  
    do  
    {  
        cout<<"enter a number";  
        cin>>x;  
    }  
    while(x>0);  
  
    return 0;  
}
```



```
"L:\FOP LAB 5\bin\Debug\FOP LAB 5.exe"
enter a number8
enter a number-9

Process returned 0 (0x0) execution time : 5.619 s
Press any key to continue.
```

LAB TASK 2:

```
#include <iostream>
```

```
#include<math.h>
```

```
using namespace std;
```

```
int main(){
```

```
    int a,b;
```

```
    char again,expression;
```

```
    do{
```

```
        cout<<"enter 2 integer"<<endl;
```

```

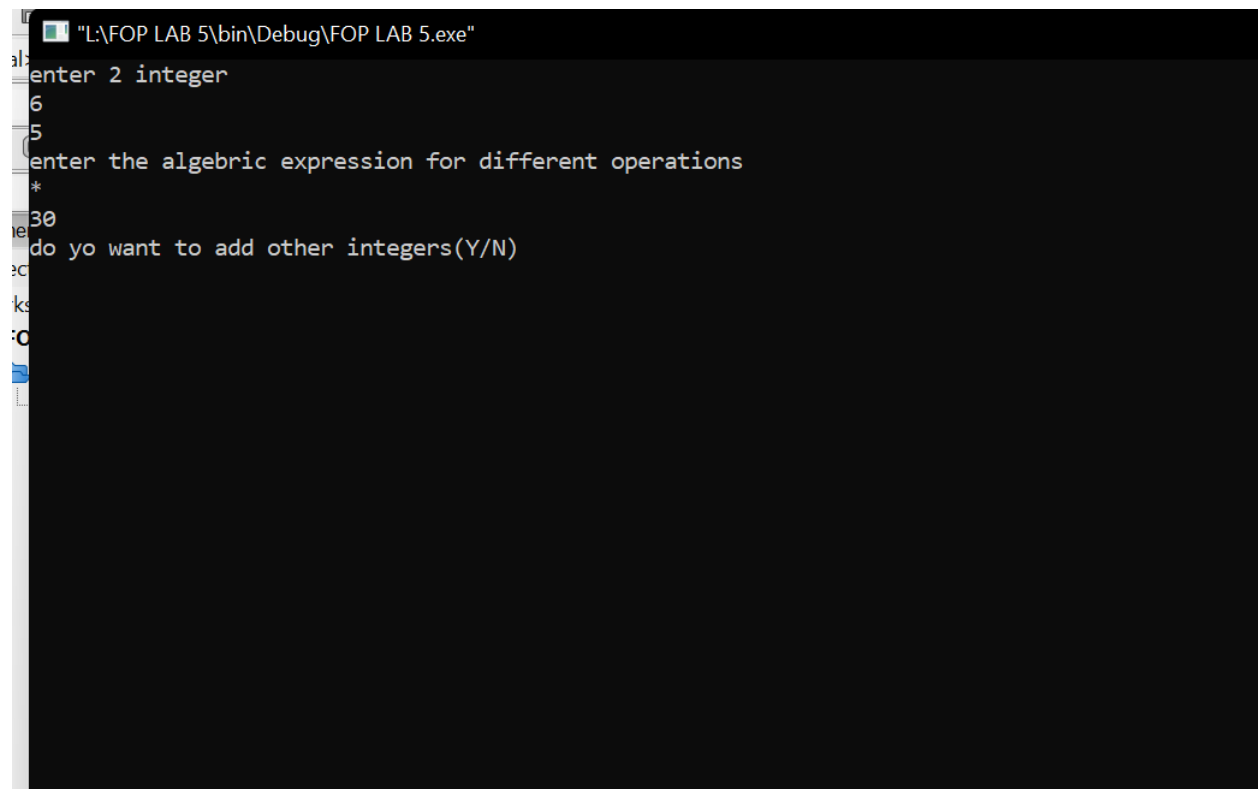
cin>>a>>b;

cout<<"enter the algebraic expression for different operations"<<endl;

cin>>expression;

switch(expression){
case '+':
    cout<<a+b<<endl;
case '-':
    cout<<a-b<<endl;
case '/':
    cout<<a/b<<endl;
case '*':
    cout<<a*b<<endl;
case 'pow':
    cout<<a pow b<<endl;
    break;
    cout<<"enter valid number"<<endl;
}
cout<<"do yo want to add other integers(Y/N)";
cin>>again;
}
while(again=='y' || again=='Y');
return 0;
}

```



```
"L:\FOP LAB 5\bin\Debug\FOP LAB 5.exe"
enter 2 integer
6
5
enter the algebric expression for different operations
*
30
do yo want to add other integers(Y/N)
```

LAB TASK 3:

```
#include <iostream>
```

```
#include<math.h>
```

```
using namespace std;
```

```
int main(){
```

```
    int a=2,sum;
```

```
    sum=0;
```

```
    while(a<=100){
```

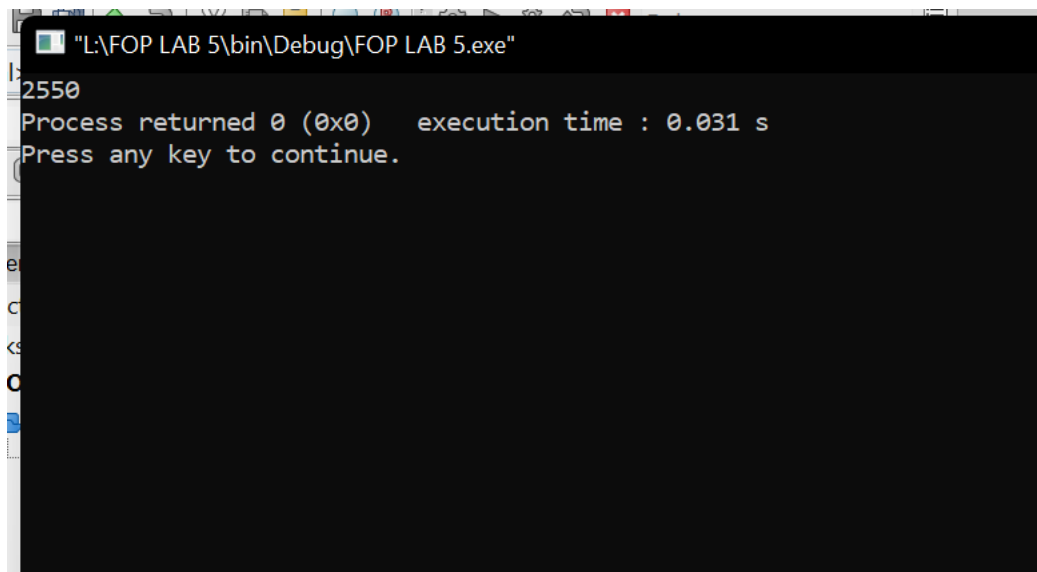
```
        if (a%2==0){
```

```
            sum+=a;
```

```
        }
```

```
    a++;  
}  
  
    cout<<sum;
```

```
  
    return 0;  
}
```



The screenshot shows a Windows command prompt window titled "L:\FOP LAB 5\bin\Debug\FOP LAB 5.exe". The window displays the output of a program, which is the number "2550". Below the output, it shows "Process returned 0 (0x0) execution time : 0.031 s" and "Press any key to continue." The window is overlaid on a background of a code editor with various symbols and text visible on the left side.

(B):

```
#include <iostream>
```

```
#include<math.h>
```

```
using namespace std;
```

```
int main(){
```

```
    int a=1,sum;
```

```
    sum=0;
```

```

    while(a<=100){
sum+=pow(a,2);
    a++;
    }

    cout<<sum;

    return 0;
}

```

```

L:\FOP LAB 5\bin\Debug\FOP LAB 5.exe
338350
Process returned 0 (0x0)   execution time : 0.079 s
Press any key to continue.

```

LAB TASK 4:

```
#include <iostream>
```

```
#include<math.h>
```

```
using namespace std;
```

```
int main(){
```

```
    int x=0;
```

```
    while(x<=20){
```

```

        cout<< pow(2,x)<<endl;

        x++;
    }

    return 0;
}

```

```

m
1
2
4
8
16
32
64
128
256
512
1024
2048
4096
8192
16384
32768
65536
131072
262144
524288
1.04858e+06
LogProcess returned 0 (0x0) execution time : 0.038 s
Press any key to continue.
Ch
Se
\S
\W

```

(B):

```
using namespace std;
```

```

int main(){

    int a,b,sum;

    cout<<"enter first digit"<<endl;

    cin>>a;

    cout<<"enter 2nd digit"<<endl;

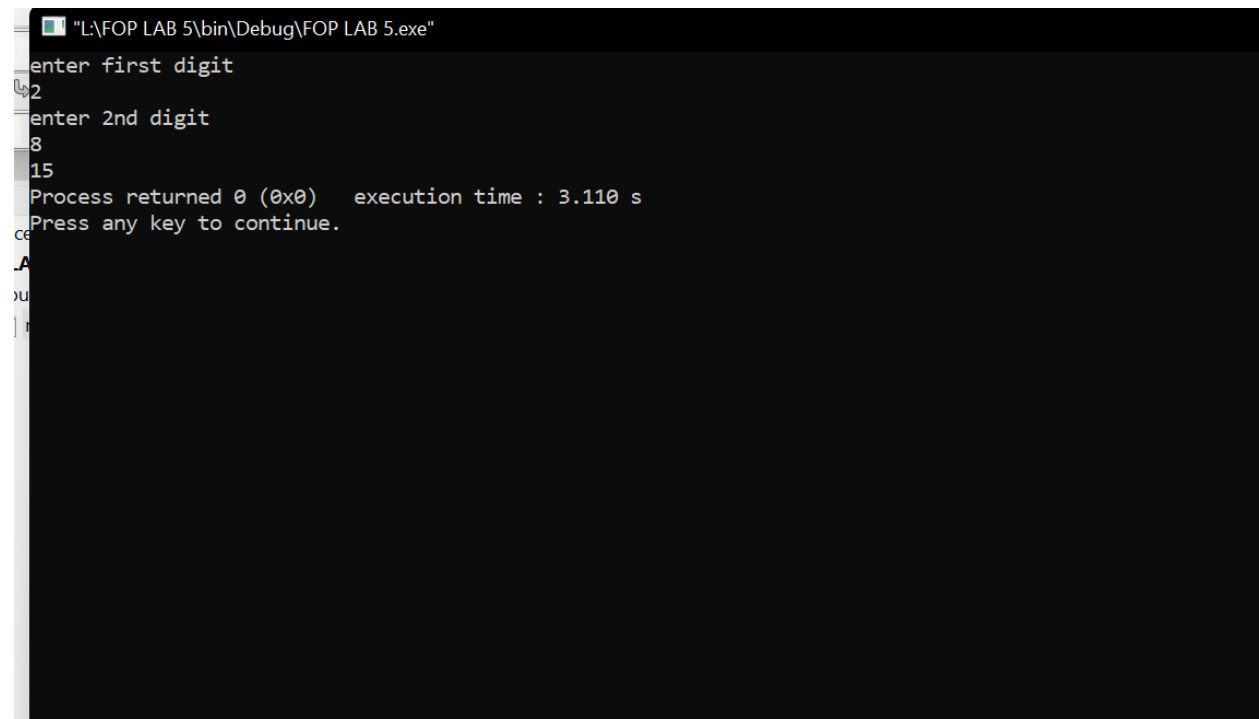
    cin>>b;

```

```
sum=0;
while(a<b){
    if(a%2!=0){
sum+=a;

    }
    a++;
}
cout<<sum;

return 0;
}
```



```
"L:\FOP LAB 5\bin\Debug\FOP LAB 5.exe"
enter first digit
2
enter 2nd digit
8
15
Process returned 0 (0x0) execution time : 3.110 s
Press any key to continue.
```