

**ABDUL MOIZ AKRAM**

**455987**

**ME-15-C**

**LAB TASK 05**

Q 01

```
#include <iostream>
```

```
using namespace std;
```

```
int main(){
```

```
    int a=1;
```

```
    do {
```

```
        cout<<"Enter a number: ";
```

```
        cin>>a;
```

```
    } while (a>0);
```

```
    return 0;
```

```
}
```

## Q 2

```
#include <iostream>

using namespace std;

int main(){

    double a, b, repeat;

    char opp;

    do {

        cout << "Enter 2 numbers: ";

        cin >> a;

        cin >> b;

        cout << "Enter the oper to get performed: ";

        cin >> opp;

        switch (opp) {

            case '+':

                cout << "Sum= " << a + b;

                break;

            case '*':

                cout << "multiplication= " << a * b;

                break;

            case '-':

                cout << "differnce= " << a - b;

                break;

            case '/':

                cout << "division= " << a / b;
```

```

        break;

    case '%':

        cout << "remainder= " << (a, b);

        break;

    case '^':

        cout << "pow= " << (a,b);

        break;

    default:

        cout << "wrong key pressed";

        break;

        cout<<"to repeat the process press 1 else press 0";

        cin>>repeat;

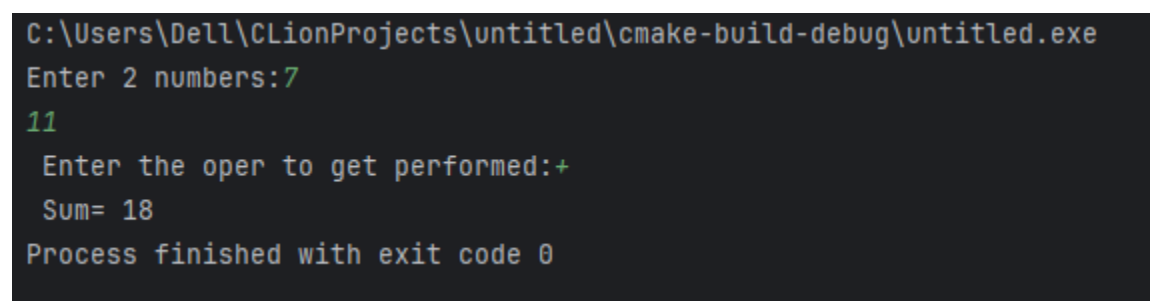
    }

} while( repeat==1);

return 0;

}

```



```

C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
Enter 2 numbers:7
11
Enter the oper to get performed:+
Sum= 18
Process finished with exit code 0

```

Q 3

```
#include <iostream>
```

```

using namespace std;

int main(){

    int a=2, sum=0;

    while (a<=100) {

        sum=sum+a;

        a=a+2;

    }

    cout<<"sum = "<<sum;

    return 0;

}

```

```

C:\Users\De11\CLionProjects\untitled\cmake-build-debug\untitled.exe
sum = 2550
Process finished with exit code 0

```

Q 3(b)

```

#include <iostream>

using namespace std;

int main(){

    int i=1, sum=0;

    while (i<=100){

        sum=sum+(i*i);

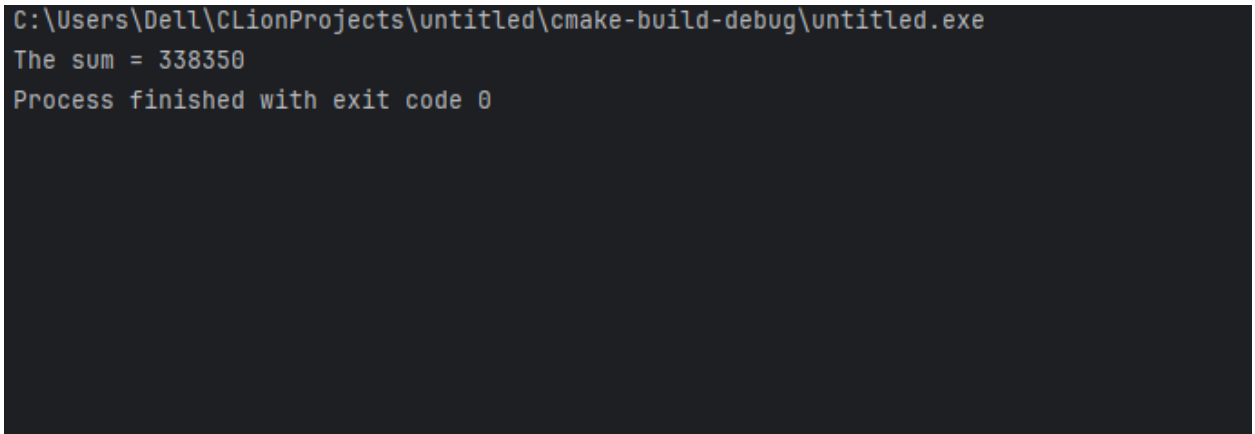
        i=i+1;

    }

    cout<<"The sum = "<<sum;

```

```
    return 0;
}
```

A screenshot of a terminal window with a dark background. The text is displayed in a light gray font. The first line shows the file path 'C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe'. The second line shows the output 'The sum = 338350'. The third line shows the message 'Process finished with exit code 0'.

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
The sum = 338350
Process finished with exit code 0
```

Q 4(a)

```
#include <iostream>

using namespace std;

int main(){

    int a=1, product=2;

    cout<<"1"<<endl;

    while (a<=20){

        product=product*2;

        a=a+1;

        cout<<product<<endl;


    }

    return 0;

}
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe
1
4
8
16
32
64
128
256
512
1024
2048
4096
8192
16384
32768
65536
131072
262144
524288
1048576
2097152

Process finished with exit code 0
|
> main.cpp
```



Q 4(b)

```
#include <iostream>
```

```
using namespace std;
```

```
int main(){
```

```
    int x, y, i, sum=0;
```

```
    cout<<"Enter initial number and final number: ";
```

```
    cin>>x>>y;
```

```
    i=x;
```

```
    while (i<=y){
```

```
    if (i%2!=0) {  
        sum=sum+i;  
    }  
    i=i+1;  
}  
cout<<"sum = "<<sum;  
return 0;  
}
```

```
C:\Users\Dell\CLionProjects\untitled\cmake-build-debug\untitled.exe  
Enter initial number and final number:3  
10  
sum = 24  
Process finished with exit code 0
```