TASK 01

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

```
enter a number :4
enter a number :5
enter a number :0


...Program finished with exit code 0
Press ENTER to exit console.
```

TASK 02

```
#include <iostream>
#include<math.h>
using namespace std;
int main() {
  int x, y , result=0 ,i;
  char operation;
  do {
```

```
    cout<<"enter first number"<<endl;
    cin>>x;
    cout<<"enter second number"<<endl;
    cin>>y;
    cout<<"enter operation(+for addition,- for subtaction, * for multiplication, / for
division"<<endl;
    cin>>operation;
    switch (operation) {
       case '+':
       result=x+y;
       break;
       case '-':
       result=x-y;
       break;
       case '*':
       result=x*y;
       break;
       case '/':
       result=x/y;
       break;
    }
          cout<<"= "<<result <<endl;

    cout<<"press 1 to continue and 0 for termination"<<endl;
   cin>>i;
 }
 while (i==1);
 return 0;
}
```

```
enter first number
9
enter second number
3
enter operation(+for addition,- for subtaction, * for multiplication, / for division
/
= 3
press 1 to continue and 0 for termination
```

TASK 03 (a)

```
#include <iostream>
using namespace std;
int main() {
   int sumEven = 0;
   int num = 2;

   while (num <= 100) {
      sumEven += num;
      num += 2;
   }

   cout << "The sum of even numbers between 2 and 100 is: " << sumEven << std::endl;
   return 0;
}
```

```
The sum of even numbers between 2 and 100 is: 2550


...Program finished with exit code 0
Press ENTER to exit console.
```

(b)

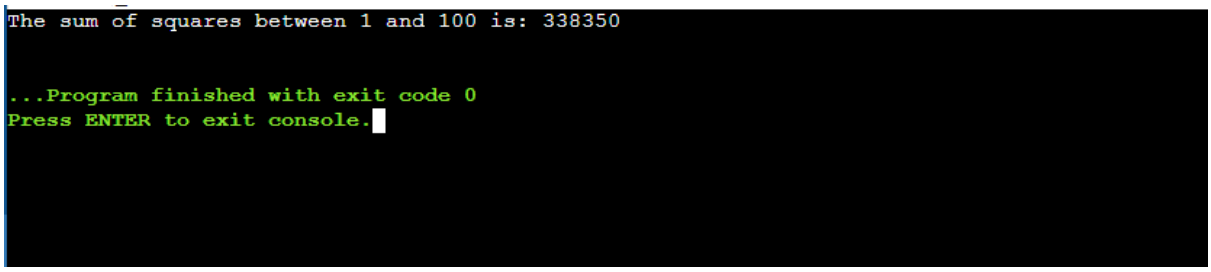
```
#include <iostream>
using namespace std;

int main() {
   int sum = 0;
   int i = 1;

   do {
      sum += i*i;
      i++;
   } while (i <= 100);

   cout << "The sum of squares between 1 and 100 is: " << sum << endl;

   return 0;
}
```



TASK 04 (a)

```
#include <iostream>
#include <cmath>
using namespace std;
int main() {
    int exponent = 0;
    long long result;

    do {
        result = pow(2, exponent);
        cout << "2^" << exponent << " = " << result << endl;
        exponent++;
    } while (exponent <= 20);

    return 0;
}
```

// (b)

```
#include <iostream>
```

```
using namespace std;
int main() {
   int int1, int2;
   int sum;

   cout<<"Enter first integrer: ";
   cin>>int1;

   cout<<"Enter the last integer: ";
   cin>>int2;

   if(int1%2 == 0){
      int1++;
   }

   for(int i=int1; i<=int2; i+=2){
      sum+=i;
   }

   cout<<"Sum of odd numbers between "<<int1<<" and "<<int2<<" is: "<<sum<<endl;
   return 0;
}
```