

LAB MANUAL 5

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TASK 2

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

int main() {
    char finish;
    do {
        double x, y, z;
        cout << " +, -, *, /, end: ";
        cin >> finish;
        if (finish == 'A') break;
        cout << "Enter two numbers: ";
        cin >> x >> y;
        if (finish == '1') z = x + y;
        else if (finish == '2') z = x - y;
        else if (finish == '3') z = x * y;
        else if (finish == '4') z = (y != 0) ? x / y : 0;
        cout << "Result: " << z << endl;
    } while (true);
    cout << "Calculator turned off" << endl;
    return 0;
}
```

```
+ , - , * , / , end: 2
Enter two numbers: 12
24
Result: -12
+ , - , * , / , end: 3
Enter two numbers: 4
12
Result: 48
+ , - , * , / , end: |
```

TASK 3

```
#include <iostream>

using namespace std;

int main() {
    int sum = 0;
    int x = 2;

    while (x <= 100) {
        sum += x;
        x += 2;
    }

    cout << " sum of even numbers between 2 and 100 is " << sum << endl;

    return 0;
}
```

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

```
-----
Process exited after 0.01096 seconds with return value 0
Press any key to continue . . . |
```

```
#include <iostream>

using namespace std;

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

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

    cout << "sum of the squares b/w 1 and 100 is " << sum << endl;

    return 0;
}
```

sum of the squares b/w 1 and 100 is 338350

Process exited after 0.01079 seconds with return value 0
Press any key to continue . . . |

TASK 4

```
#include <iostream>

using namespace std;

int main() {
    int x = 0;
    int y = 1;

    while (x <= 20) {
        cout << "2^" << x << " is " << y << endl;
        y *= 2;
        x++;
    }

    return 0;
}
```

```
2^0 is 1
2^1 is 2
2^2 is 4
2^3 is 8
2^4 is 16
2^5 is 32
2^6 is 64
2^7 is 128
2^8 is 256
2^9 is 512
2^10 is 1024
2^11 is 2048
2^12 is 4096
2^13 is 8192
2^14 is 16384
2^15 is 32768
2^16 is 65536
2^17 is 131072
2^18 is 262144
2^19 is 524288
2^20 is 1048576
```

```
-----
Process exited after 0.0232 seconds with return value 0
Press any key to continue . . . |
```

```

#include <iostream>

using namespace std;

int main() {

    int x=0;
    int y=0;
    int z=0;

    cout <<"write 2 numbers " << endl;
    cin >> x >> y;
    int c=x;

    while (c<=y){
        if (c%2 ==1){
            z+=c;
        }
        c++; // no pun intended
    }
    cout << z;
    return 0;
}

```

```

write 2 numbers
2
67
1155
-----

```

```

Process exited after 2.771 seconds with return value 0
Press any key to continue . . . |

```