LAB TASK

LAB MANUAL 5

Q1.

l51.cpp

```cpp
#include<iostream>
using namespace std;
int main () {
    int x=1;
    do {
        cout<<"Enter a Number:"<<endl;
        cin >> x;
    } while (x>0);
    return 0;
}
```

```
Enter a Number:
9
Enter a Number:
34
Enter a Number:
5
Enter a Number:
67
Enter a Number:
8
Enter a Number:
4
Enter a Number:
2
Enter a Number:
1
Enter a Number:
0

--------------------------------
Process exited after 11.98 seconds with return value 0
Press any key to continue . . .
```

Q2.

```cpp
#include<iostream>
#include<math.h>
using namespace std;
int main () {
    char repeat;
    do {
    float n1, n2, res;
    char op;
    cout<<"Enter the first Number:"<<endl;
    cin>>n1;
    cout<<"Enter the Function(+,-,*,/,^,%):"<<endl;
    cin>>op;
    cout<<"Enter the second Numbers:"<<endl;
    cin>>n2;
    switch (op) {
        case '+' :
        cout<<"The sum is "<<n1+n2<<endl;
        break;
        case '-':
        cout<<"The difference is "<<n1-n2<<endl;
        break;
        case '*':
        cout<<"The Multiplication of numbers is "<<n1*n2<<endl;
        break;
        case '/':
        if (n2=0) {
        cout<<"The Multiplication of numbers is "<<n1*n2<<endl;
        break;
        case '/':
        if (n2=0) {
            cout<<"Not Divisible by ZERO "<<endl;} else { cout<<"The division results "<<n1/n2;
            } break;
        case '^':
        cout<<"The number raised is "<<pow (n1,n2)<<endl;
        break;
        case '%':
        cout<<"The result is "<<fmod(n1,n2);
        break;
    } cout<<"Do you want to use again? y for yes and n for no."<<endl;
    cin>>repeat; } while (repeat == 'y');
    return 0;
}
```

```
C:\Users\H.P\Documents\Lab manual 3\51.exe
Enter the first Number:
54
Enter the Function(+,-,*,/,^,%):
+
Enter the second Numbers:
34
The sum is 88
Do you want to use again? y for yes and n for no.
```

Q3.

l51.cpp [*] l52.cpp

```cpp
#include<iostream>
using namespace std;
int main () {
    int n = 2, sum = 0;
    while (n<=100) {
        sum += n;
        n += 2;
    } cout<<"The result is "<<sum<<endl;
    return 0;
}
```

```
C:\Users\H.P\Documents\Lab manual 3\l52.exe
The result is 2550

--------------------------------
Process exited after 0.03447 seconds with return value 0
Press any key to continue . . .
```

Q4.

l51.cpp l52.cpp

```cpp
#include<iostream>
using namespace std;
int main () {
    int n = 1, re = 0, sq = 0;
    do {
        sq= n*n;
        re += sq;
        n +=1;
    } while (n<=100);
    cout<<"The sum of squares is "<<re;
    return 0;
}
```

```
C:\Users\H.P\Documents\Lab manual 3\l52.exe
The sum of squares is 338350
--------------------------------
Process exited after 0.03214 seconds with return value 0
Press any key to continue . . .
```

Q5.

```cpp
#include<iostream>
#include<math.h>
using namespace std;
int main () {
    int n = 1, re = 0;
while (n<=20) {
    re += pow (2, n);
    n++;
}
    cout<<"The answer is "<<re;
    return 0;
}
```

```
The answer is 2097150
--------------------------------
Process exited after 0.03742 seconds with return value 0
Press any key to continue . . .
```

Q6.

```cpp
#include<iostream>
#include<math.h>
using namespace std;
int main () {
    int n1, n2, re = 0;
    cout<<"Enter Two numbers"<<endl;
    cin>>n1>>n2;
while (n1<=n2) {
    if (n1%2==1) { re +=1;
    } n1++;
}
    cout<<"The sum of all odd numbers between given numbers is "<<re;
    return 0;
}
```

```
Enter Two numbers
8
87659
The sum of all odd numbers between given numbers is 43826
--------------------------------
Process exited after 7.737 seconds with return value 0
Press any key to continue . . .
```