**09-04-2020**

**Today Task**

**Program to find variable size**

#include <iostream>

using namespace std;

int main()

{ cout << "Size of char: " << sizeof(char) << " byte" << endl;

cout << "Size of int: " << sizeof(int) << " bytes" << endl;

cout << "Size of float: " << sizeof(float) << " bytes" << endl;

cout << "Size of double: " << sizeof(double) << " bytes" << endl;

return 0;

}

While loop

Example 1

#include <iostream>

using namespace std;

int main()

{ char answer;

cout << "Do you want to play the game: (y/n) ";

cin >> answer;

while ( answer == 'y')

{ cout << "Play game ...." << endl;

cout << "Do you want to play again: (y/n) ";

cin >> answer; }

return 0;

}

Example 2:

#include <iostream>

using namespace std;

int main()

{

int number, factorial, counter;

cout << "Enter a positive integer:";

cin >> number;

factorial = 1;

counter = 1;

while(counter <= number)

{factorial \*= counter;

counter += 1;

}

cout << "The factorial of " << number

<< " is " << factorial << endl;

}

Example 3: shown

#include <iostream>

using namespace std;

int main()

{

int a=2, b=3, y=4, x=12, z=15;

a \*= b; //a = a\*b;

y /= z; // y = y/z;

x += y; //x = x+y;

z -= x; //z = z-x;

b %= x; //b = b%x;

cout<<a<<endl;

cout<<y<<endl;

cout<<x<<endl;

cout<<z<<endl;

cout<<b<<endl;

}