//WHILE ITERATION STATEMENT

int x = 0;

while (x< 10)

{

Write($"{x}, ");

x++;

}

//DO WHILE ITERATION STATEMENT

string password = string.Empty;

do

{

Write("Enter your password: ");

password = ReadLine();

}

while (password != "Pa$$word");

WriteLine("Correct!");

// DO Statement with added attempts feature

string password = string.Empty;

int attempts = 0;

do

{

attempts++;

Write("Enter your password: ");

password = ReadLine();

}

while ((password != "Pa$$w0rd") & (attempts< 10));

if (attempts< 10)

{

WriteLine("Correct!");

}

else

{

WriteLine("You have used 10 attempts!");

}

//FOR ITERATION STATEMENT

for (int y = 1; y <= 10; y++)

{

Write(y);

}

//FOREACH ITERATION STATEMENT

string[] names = { "Adam", "Barry", "Charlie" };

foreach (string name in names)

{

WriteLine($"{name} has {name.Length} characters.");

}

int a = 10;

double b = a; //an int can safely be cast into a double

WriteLine(b);

double c = 9.8;;

int d = (int)c; //use the cast operator to explicitly cast

WriteLine(d);

//AVOID EXCEPTIONS USING TryParse METHOD

int count;

string input = ReadLine();

if(int.TryParse(input, out count))

{

WriteLine($"There are {count} eggs.");

}

else

{

WriteLine("I could not parse the input.");

}