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CSharp

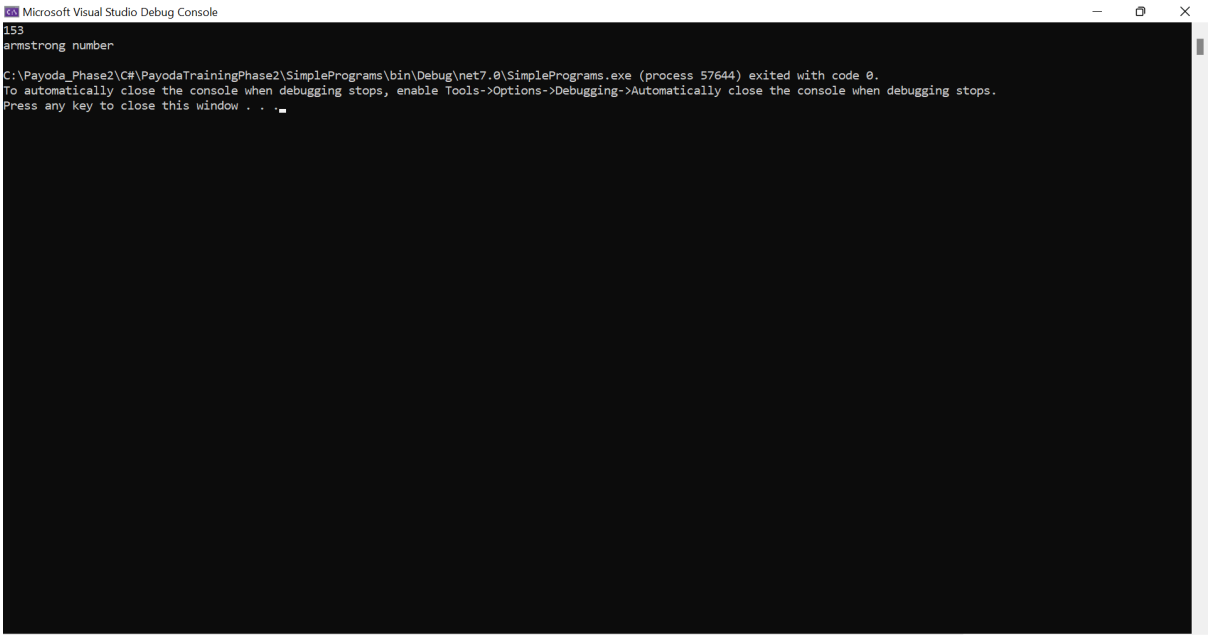
Assignment-

1.Check whether the given number is Armstrong or not

Code:

```
int num1;
int num2;
int sum = 0;
int res;
num1 = Convert.ToInt32(Console.ReadLine());
int temp = num1;
while (num1 != 0)
{
    num2 = num1 % 10;
    res = num2 * num2 * num2;
    sum = sum + res;
    num1 = num1 / 10;
}
if (sum == temp)
{
    Console.WriteLine("armstrong number");
}
else
{
    Console.WriteLine("Not a armstrong number");
}
```

Output:

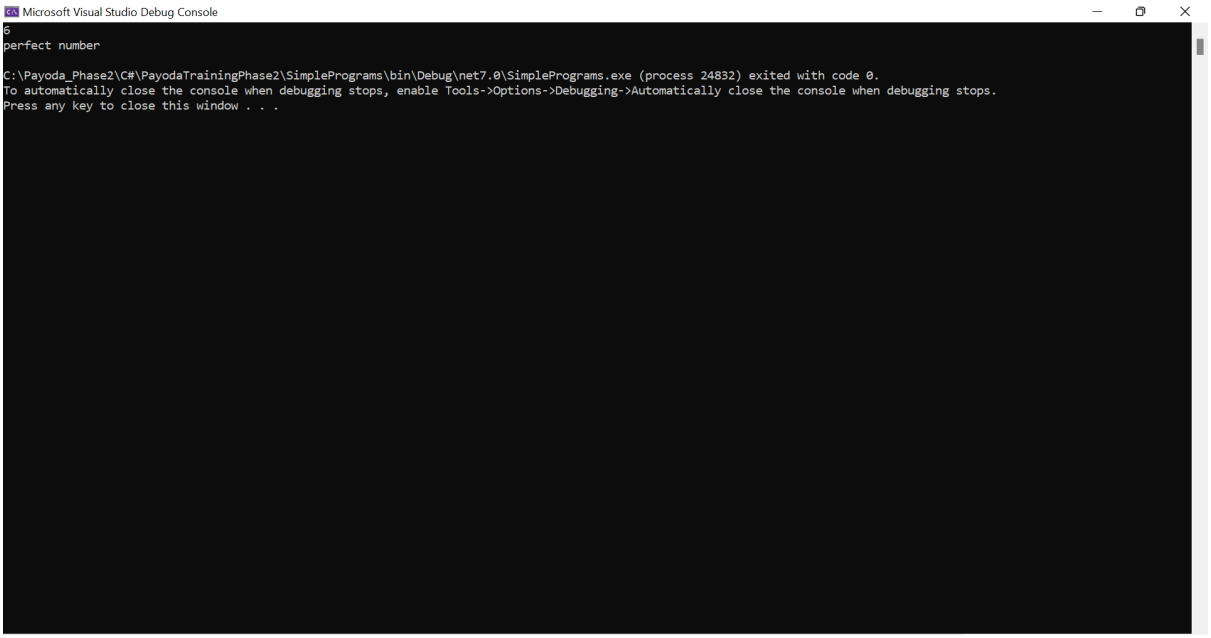


2.Check whether the number is perfect or not

Code:

```
int num1;
int sumvalue = 0;
num1 = Convert.ToInt32(Console.ReadLine());
for (int i = 1; i < num1; i++)
{
    if (num1 % i == 0)
    {
        sumvalue = sumvalue + i;
    }
}
if (num1 == sumvalue)
{
    Console.WriteLine("perfect number");
}
else
{
    Console.WriteLine("not a perfect number");
}
```

Output:



3.Print the prime numbers between the given range

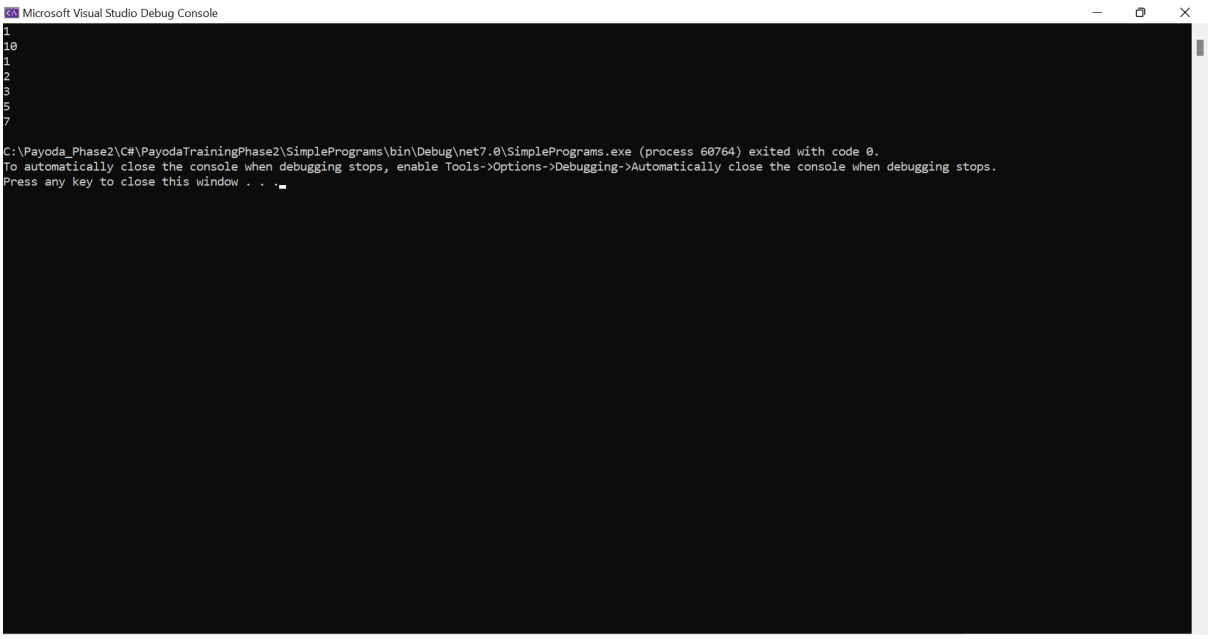
Code:

```
int num1,num2;
int sumvalue = 0;
num1 = Convert.ToInt32(Console.ReadLine());
num2= Convert.ToInt32(Console.ReadLine());
for (int j = num1; j <=num2; j++)
{
   for (int i = 2; i<j; i++)
   {
      if (j%i == 0)
      {
         sumvalue = sumvalue + 1;
      }
   }
   if (sumvalue == 0)
   {
      Console.WriteLine(j);

   }
   sumvalue = 0;

}
```

Output:


Microsoft Visual Studio Debug Console
1
10
1
2
3
5
7
C:\Payoda_Phase2\C#\PayodaTrainingPhase2\SimplePrograms\bin\Debug\net7.0\SimplePrograms.exe (process 60764) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .