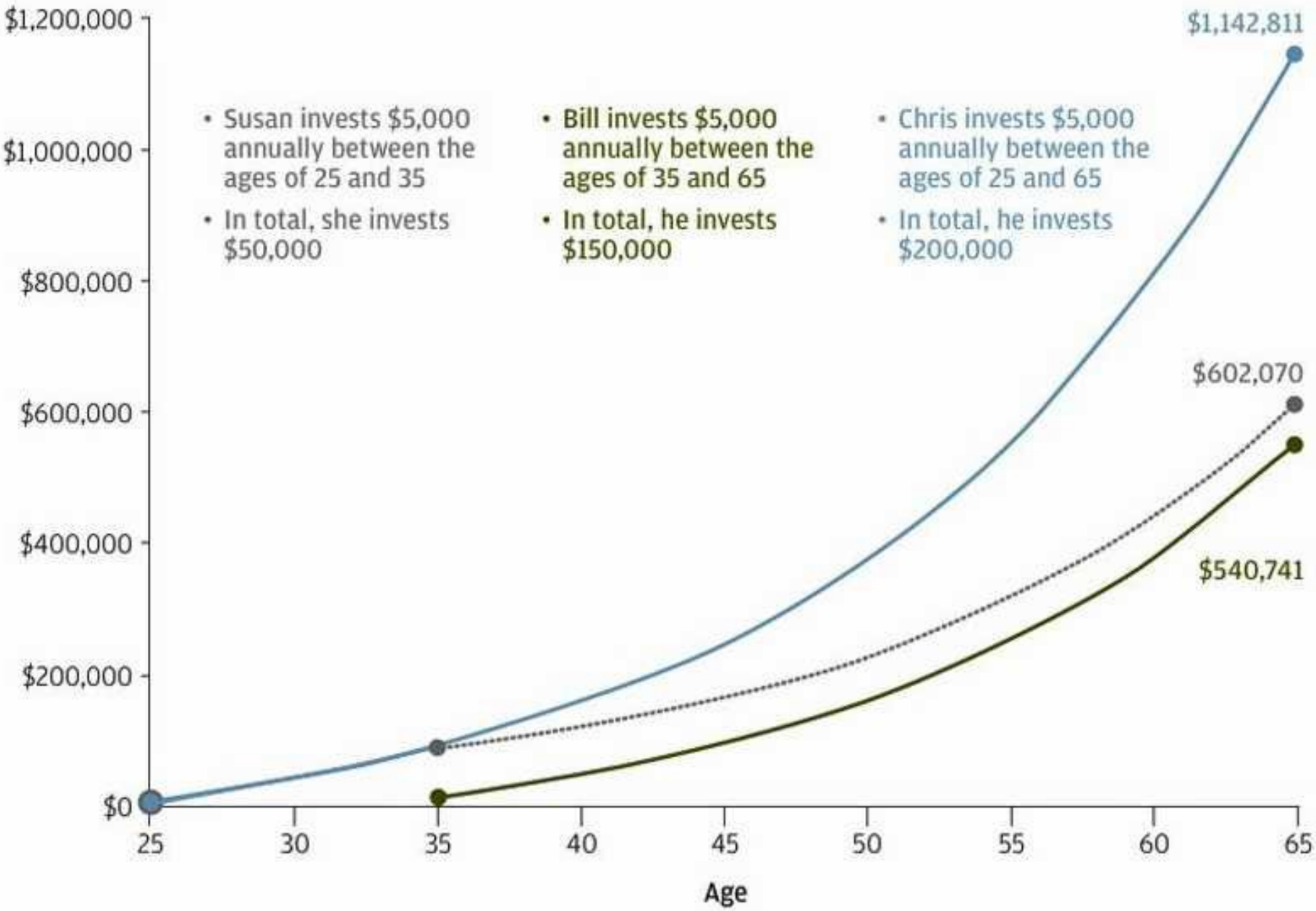
LOOPS

Computer Science II
CS 030

Donald J. Patterson

Benefit of saving early

Growth of savings accounts



- Susan invests $5,000 annually between the ages of 25 and 35
- In total, she invests $50,000

- Bill invests $5,000 annually between the ages of 35 and 65
- In total, he invests $150,000

- Chris invests $5,000 annually between the ages of 25 and 65
- In total, he invests $200,000

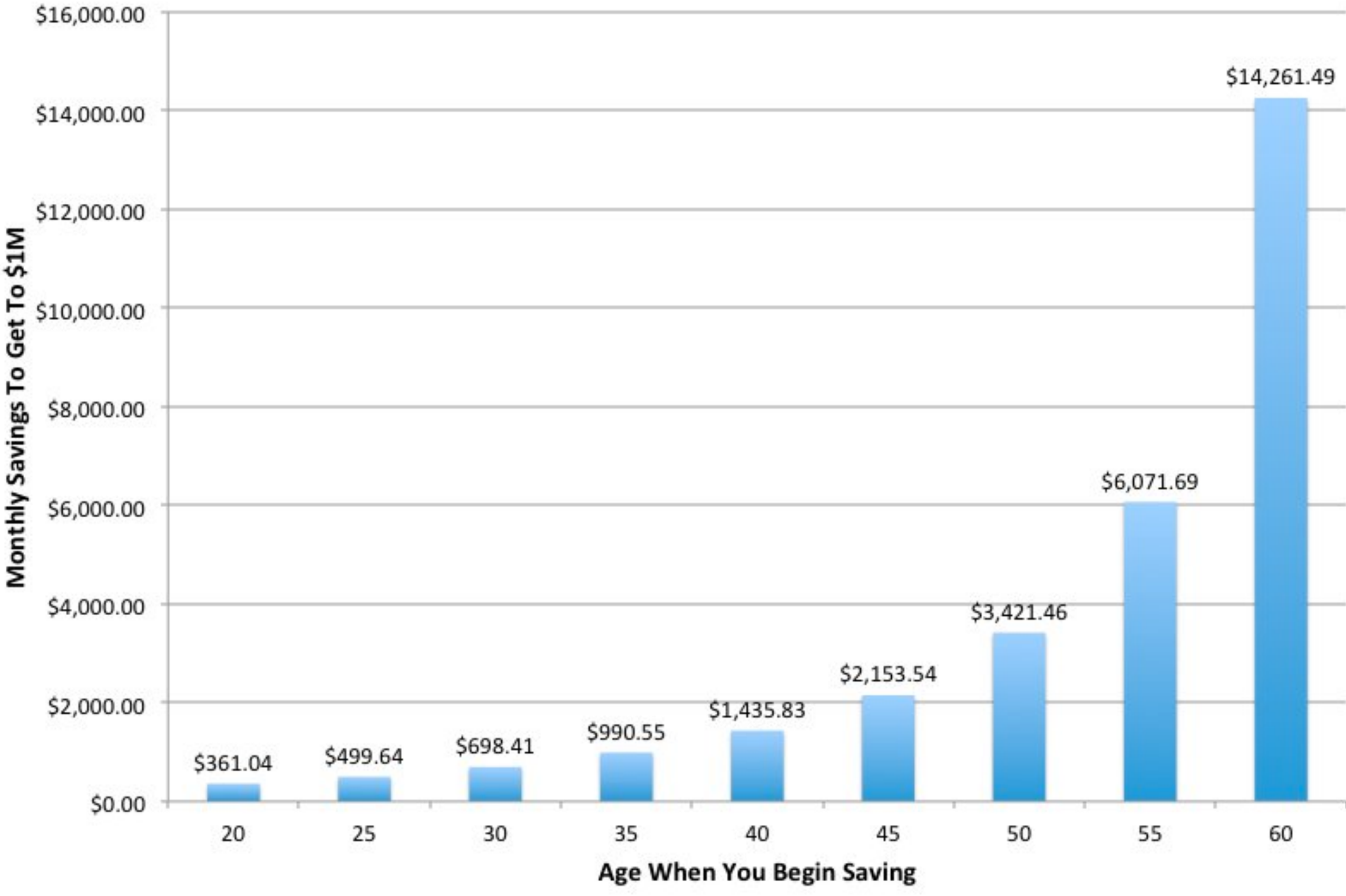
Saving fundamentals: Harnessing the power of compounding can greatly impact the amount of savings over the long term.

The above example is for illustrative purposes only and not indicative of any investment. Account value in this example assumes a 7% annual return.
Source: J.P. Morgan Asset Management.

Compounding refers to the process of earning return on principal plus the return that was earned earlier.

J.P.Morgan
Asset Management

How Much You Need To Save To Get To $1M At Retirement (6% Return Rate)



TRACE THE FOLLOWING CODE

```
int n = 1796;
int count = 0;
while (n > 0)
{
    int digit = n % 10;
    if (digit == 6 || digit == 7)
    {
        count++;
    }
    n = n / 10;
}
System.out.println(count);
```

What does this code do?

TRACE THE FOLLOWING CODE

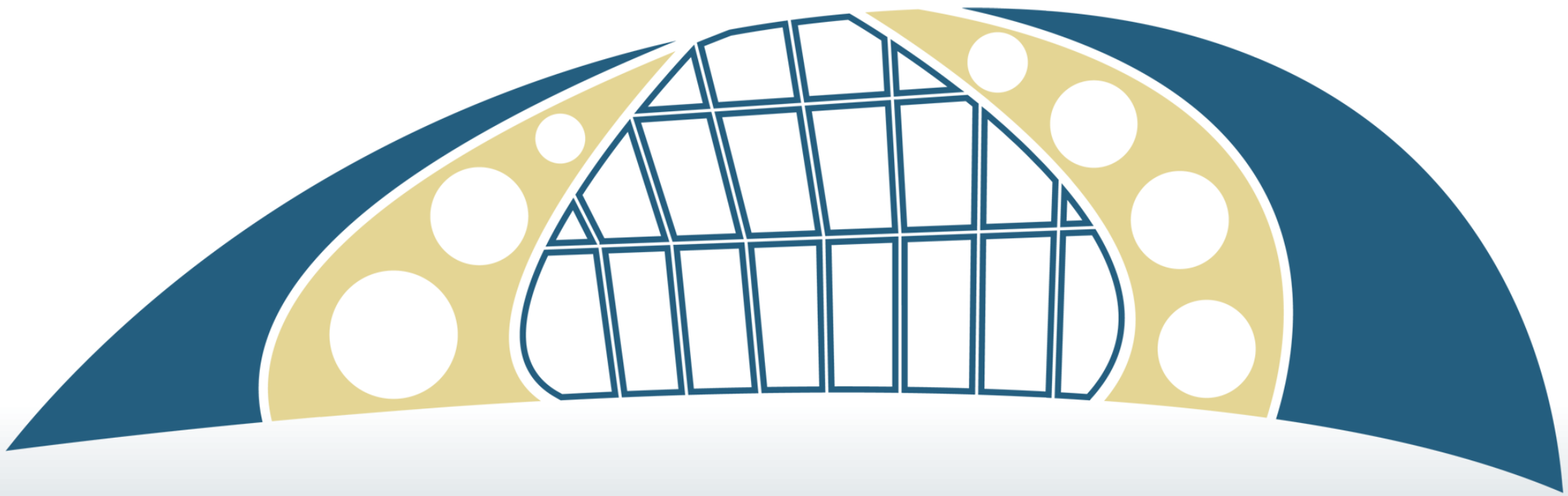
```
for (int j = 0; j < 5; j++)
{
    int value = j * 2;
    System.out.print(value + ", ");
}
```

What does this code output?

TRACE THE FOLLOWING CODE

```
String message = "Hello Fred";
String result = "";
int n = message.length();
for (int i = 0; i < n; i = i + 2)
{
   char ch = message.charAt(i);
   result = result + ch;
}
System.out.println(result);
```

What does this code output?



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