## Lab 2 - Functions and Pointers - Suggested Answers

```
Q1: Suggested Answer
void numDigits2(int num, int *result)
 *result=0;
 do {
   (*result)++;
   num = num/10;
 } while (num > 0);
}
Q2: Suggested Answer
int digitPos1(int num, int digit)
 int pos=0;
 do {
   pos++;
   if (num % 10 == digit)
    return pos;
   num = num / 10;
 } while (num > 0);
 return 0;
}
Q3: Suggested Answer
int square1(int num)
{
 int count=0, k=1, result=0;
 while (count < num)
   result += k;
   k += 2;
   count++;
 }
 return result;
void square2(int num, int *result)
 int count=0, k=1;
 *result=0;
 while (count < num)
   *result += k;
   k += 2;
   count++;
 }
```

}