Pre-lab questions:

1. Please program Newton's method for finding the root of x. You can use any starting point.

Newton's method for evaluating \sqrt{x}

$$r_k = \frac{1}{2} \left(r_{k-1} + \frac{x}{r_{k-1}} \right)$$

2. Will the following program have runtime error? Try it yourself, explain, and revise.

```
int main()
  int c = 5, no = 10;
  do {
    no /= c;
  } while(c--);
  printf ("%d\n", no);
  return 0;
}
3. What is the output of the following code? Please explain it.
int main()
{
 int n;
 for (n = 10; n!=0; n--)
  printf("%d ", n--);
 return 0;
}
```