Python

```
import random


lower = int(input("Enter Lower bound: "))


upper = int(input("Enter Upper bound: "))


count = 0

num = '10'

while num != 'y':

   x = random.randint(lower, upper)

   count += 1

   print (f'my guess is {x} \t')

   num = input("is my guess right?\n write y for yes and b for bigger number\n and s for smaller number\n")

   if num == 's':

      upper = x

      print("so I should guess a smaller number \n ")

   elif num == 'b':

      lower = x

      print("so I should guess a bigger number \n ")

print(f'I did it, I guessed the number in {count} tries')
```

c programming

```
#include<stdio.h>
#include<stdlib.h>

int main()
{
   int hnum, lnum, number, guess, nguesses=0;
   srand(time(0));
   printf("Choose the higher boundary\n");
   scanf("%d", &hnum);
   printf("Choose the lower boundary\n");
   scanf("%d", &lnum);
   guess = (hnum+lnum)/2;
   do
   {
      nguesses++;
                printf("I guess : %d\n", guess);
      printf("If I am right enter 10 \n if I am wrong enter 10< for if the number is smaller \nand <10 if the number is bigger\n");
      scanf("%d", &number);
      if(10>number)
      {
         printf("I guessed a high number\n I will try smaller one\n");
         hnum = guess;
```

```
            guess = (hnum+lnum)/2;
        }
        else if(10<number)
        {
            printf("I guessed a low number\n I will try bigger one\n");
            lnum = guess;
            guess = (hnum+lnum)/2;
        }
        else
        {
            printf("I guessed the correct number\n");
            printf("attempts : %d\n", nguesses);
        }
    } while(number!=10);
    return 0;
}
```