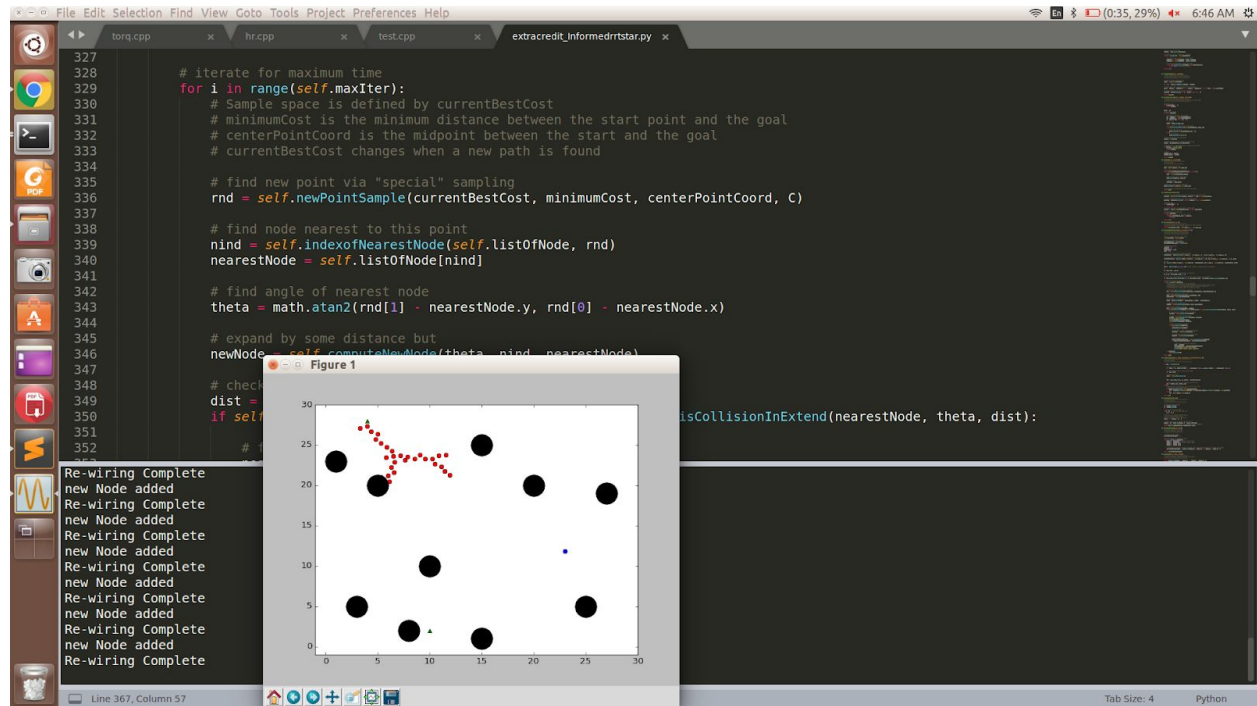


Informed RRT*

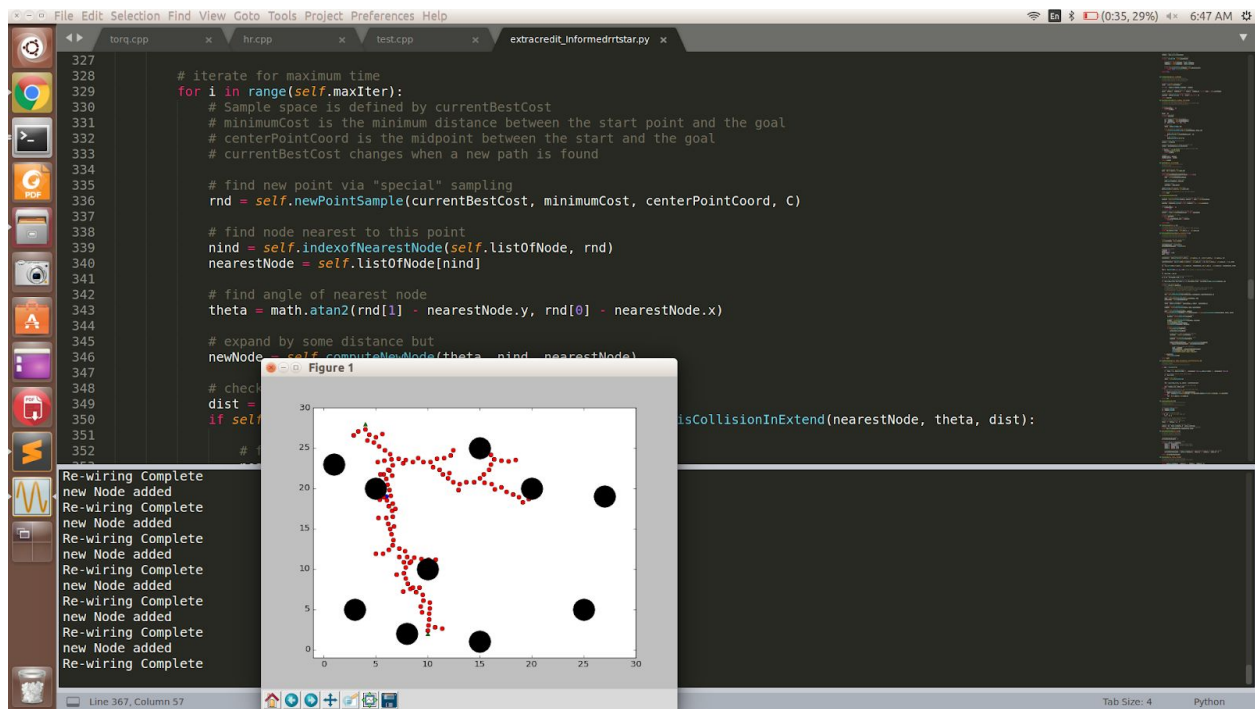
DENIM PATEL

CODE CONTAINS FULL DOCUMENTATION
(YOU WILL FIND COMMENT ON EACH STEP)

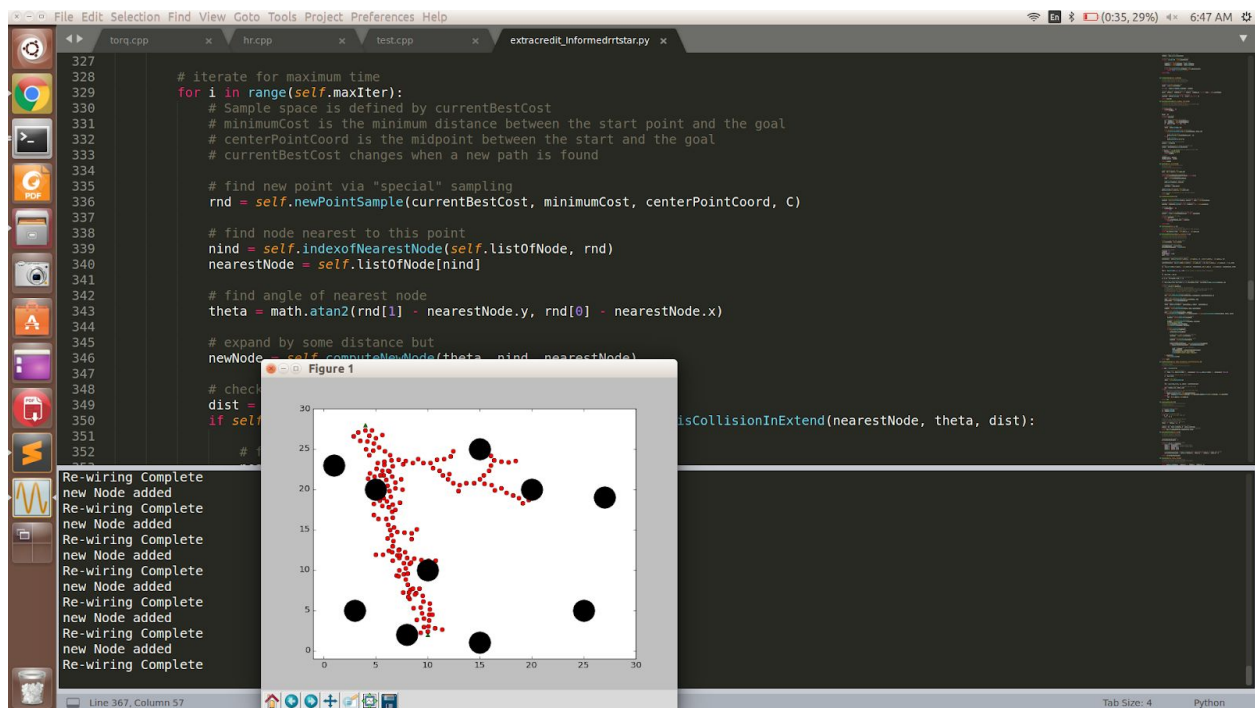
1.)



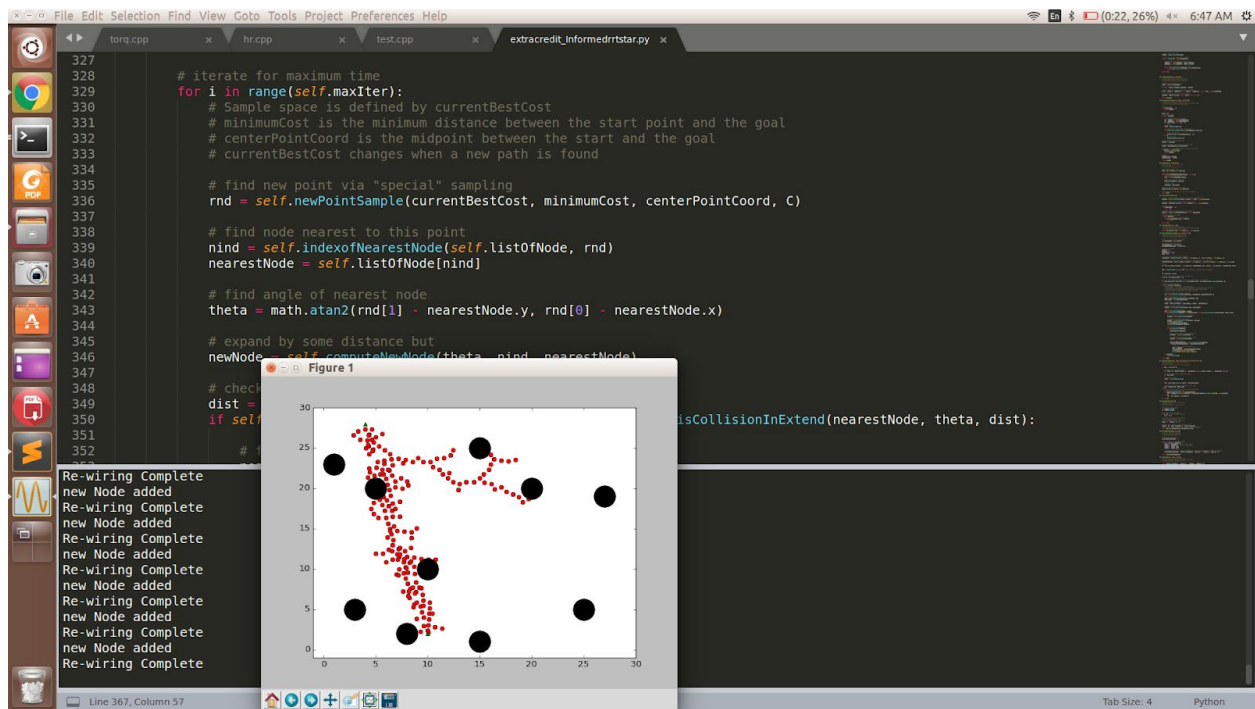
2.)



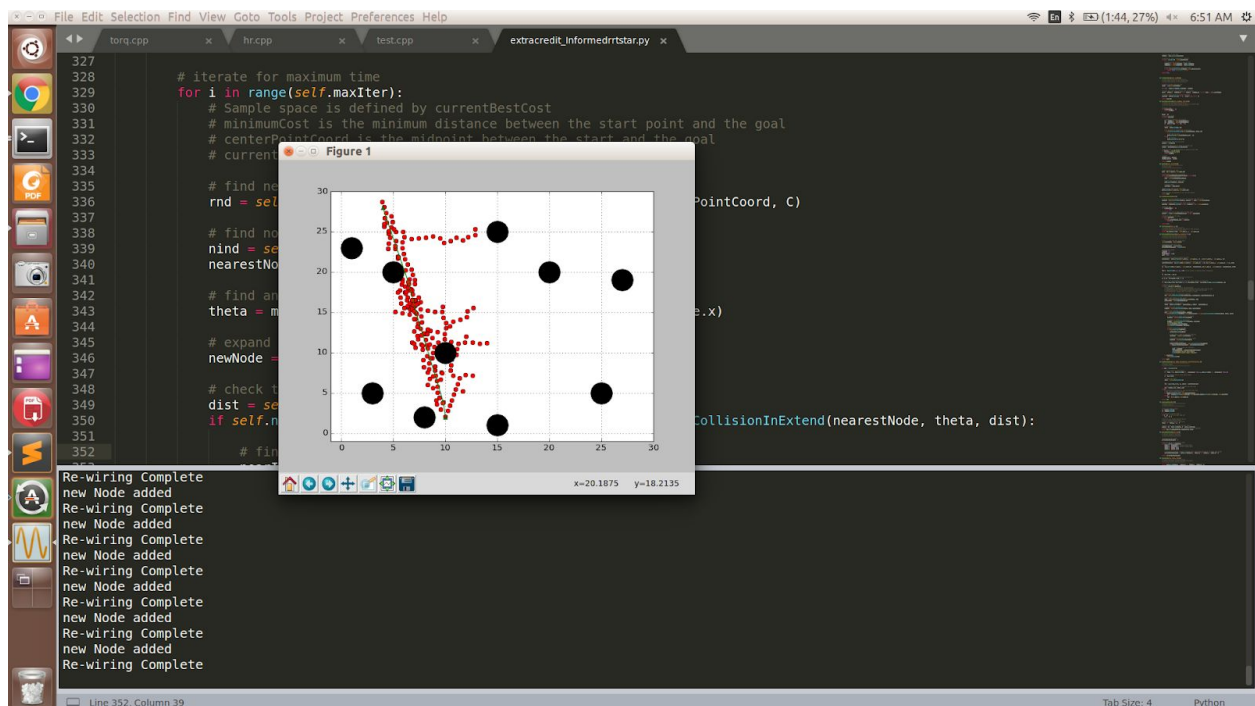
5.)



6.)



7.) final path printed



Runtime comparison

RRT took less than **15 secs**

Informed RRT* took **56 secs**

[note that in both the case, the small delay was present in a code for a better visualization]

Path optimality

From the above pictures, it is clear that

- informed RRT* without wiring in the first iteration is as same as RRT
- So, I can definitely say that the path length was very high compared to informed RRT*
- Also, the path is zig-zag in case of RRT
- In Informed RRT* path gets better at every iteration