

# AI1100 ASSIGNMENT1

AI21BTECH11016

March 2022

- Drawing a circle of radius  $4\text{cm}$ . Taking a point P outside the circle at a distance of  $7\text{cm}$  from the centre of the circle and constructing a pair of tangents to the circle from that point using Python.

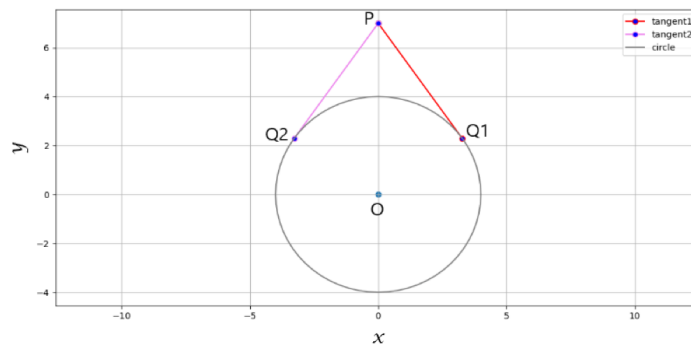


Figure 1:

- Calculating the length of tangent  $PQ_2$ , which is the third side of the triangle  $OQ_2P$ , right-angled at  $Q_2$  using the Pythagorean theorem using C.

```
D:\c>gcc exe.c
D:\c>a.exe
length of OQ2 = 4
length of OP = 7
length of PQ2 = 5.744563
D:\c>
```

Figure 2: