Ans 1.

(i)

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Sentence: Apple positioned the iPhone as a consumer product when it introduced its groundbreaking smartphone in 2007, and it has been pushing the device into businesses ever since.

Annotating Apple as ngroup

Annotating positioned as constit cat=vgroup

Annotating a consumer as ngroup

Annotating product as ngroup

Annotating it as ngroup

Annotating introduced as constit cat=vgroup

Annotating its groundbreaking smartphone as ngroup

Annotating it as ngroup

Annotating has as constit cat=vgroup

Annotating the device as ngroup

Annotating businesses as ngroup

Missed

Consumer product should be a noun group  
has been pushing should be a vgroup

Correctly identified

Its groundbreaking smartphone

Wrongly identified

None

(ii).

Sentence: The Apple Watch is good looking for a smartwatch and not hard to use, according to initial impressions.

Annotating Apple Watch as constit cat=ngroup

Annotating is as constit cat=vgroup

Annotating a smartwatch as constit cat=ngroup

Annotating use as constit cat=vgroup-inf

Annotating initial impressions as constit cat=ngroup

Missed

Good looking should be a noun group

Correctly identified

Apple Watch, initial impressions

Wrongly identified

None

(iii).

Sentence: The service will cost $14.99 a month, and will include current and past programming, as well as movies.

Annotating The service as ngroup

Annotating will cost as constit cat=vgroup

Annotating a month as ngroup

Annotating will include as constit cat=vgroup

Annotating past programming as ngroup

Annotating movies as ngroup

Correctly identified

Past programming

Missed and wrongly identified: None

(iv)

Sentence: The technology blog, founded in 2006, became a fixture in Silicon Valley and claimed 6.4 million monthly readers.

Annotating The technology as ngroup

Annotating blog as ngroup

Annotating became as constit cat=vgroup

Annotating a fixture as ngroup

Annotating Silicon Valley as ngroup

Annotating claimed as constit cat=vgroup

Annotating monthly readers as ngroup

Missed

The technology blog can be one ngroup

Million monthly readers can also be one ngroup

Correctly identified:

Silicon valley as ngroup

Monthly readers as ngroup

Ans2.

pattern set chunks;

// patterns for noun groups

ng := det-pos? [constit cat=adj]\* [constit cat=n]+ |

qu [constit cat=adj]\* [constit cat=n]+ |

proper-noun |

[constit cat=pro] ;

qu := [constit cat=det]? [constit cat = q];

det-pos := [constit cat=det] |

[constit cat=det]? [constit cat=n number=singular] "'s" |

[constit cat=det]? [constit cat=adj]\* proper-noun "'s" ;

proper-noun := ([token case=cap] | [undefinedCap])+;

when ng add [ngroup];

//Pattern for acive vgroups

vg := [constit cat=tv] |

tv-vbe vg-ving |

tv-vb vg-ven |

[constit cat=w] [constit cat=v] |

[constit cat=w] tv-vbp vg-ven |

[constit cat=w] vg-inf ;

vg-inf := [constit cat=v] |

"be" vg-ving;

vg-ven := [constit cat=ven] |

"been" vg-ving ;

vg-ving := [constit cat=ving] ;

tv-vbe := "is" | "are" | "was" | "were";

tv-vb := tv-vbp | tv-vbs;

tv-vbp := "have";

tv-vbs := "has" | "had";

when vg add [constit cat=vgroup];

// patterns for passive verb groups

vg-pass := tv-vbe [constit cat=ven] |

tv-vb "been" [constit cat=ven] |

tv-vbs "been" "being" [constit cat=ven] |

[constit cat=w] "be" [constit cat=ven] |

[constit cat=w] tv-vbp "been" [constit cat=ven] |

[constit cat=w] "be" "being" [constit cat=ven] |

[constit cat=w] tv-vbp "been" "being" [constit cat=ven] |

tv-vbe "being" [constit cat=ven];

when vg-pass add [constit cat=vgroup-pass];

// pattern for infinitival verb groups

to-vg := vg-inf;

when to-vg add [constit cat=vgroup-inf];

(Ans 3). Sentences after modification

(a).

Sentence: Apple positioned the iPhone as a consumer product when it introduced its groundbreaking smartphone in 2007, and it has been pushing the device into businesses ever since.

Annotating Apple as ngroup

Annotating positioned as constit cat=vgroup

Annotating a consumer product as ngroup

Annotating it as ngroup

Annotating introduced as constit cat=vgroup

Annotating its groundbreaking smartphone as ngroup

Annotating it as ngroup

Annotating has been pushing as constit cat=vgroup

Annotating the device as ngroup

Annotating businesses as ngroup

Correction: Now consumer product is combined as one noun group, has been pushing is a verb group

(b). Sentence: The Apple Watch is good looking for a smartwatch and not hard to use, according to initial impressions.

Annotating Apple Watch as ngroup

Annotating is as constit cat=vgroup

Annotating a smartwatch as ngroup

Annotating use as constit cat=vgroup-inf

Annotating initial impressions as ngroup

Same as before, it missed good looking

©. Sentence: The service will cost $14.99 a month, and will include current and past programming, as well as movies.

Annotating The service as ngroup

Annotating will cost as constit cat=vgroup

Annotating a month as ngroup

Annotating will include as constit cat=vgroup

Annotating past programming as ngroup

Annotating movies as ngroup

Correct as before

(d). Sentence: The technology blog, founded in 2006, became a fixture in Silicon Valley and claimed 6.4 million monthly readers.

Annotating The technology blog as ngroup

Annotating became as constit cat=vgroup

Annotating a fixture as ngroup

Annotating Silicon Valley as ngroup

Annotating claimed as constit cat=vgroup

Annotating million monthly readers as ngroup

Correction: The technology blog is now combined to a single noun group

Million monthly readers is also now a single ngroup

**Hence the grammar can now tag more groups with better accuracy.**

Ans4.

1. Patients ***rarely*** believed they were too fat.
2. They ***usually*** go to work by bus.
3. The prestigious address ***certainly*** adds to the firm's appeal.