

# ASSIGNMENT NO # 5

Q: Annotate the following sentences with (a) Universal Part of Speech (b) Universal Dependency (c) PropBank Semantic Role

- (1) The three intelligent students won the prize.
- (2) They gave us a gift.
- (3) John saw the monkey with the telescope.
- (4) Time flies like an arrow.
- (5) John is intelligent.
- (6) Submit this assignment as a soft copy.

A:

1. The three intelligent students won the prize.

**- Universal POS:**

- The (DET)
- three (NUM)
- intelligent (ADJ)
- students (NOUN)
- won (VERB)
- the (DET)
- prize (NOUN)

**- Universal Dependency:**

- det(students, The)
- nummod(students, three)
- amod(students, intelligent)
- nsubj(won, students)
- det(prize, the)
- obj(won, prize)

**- PropBank Semantic Role:**

- ARG0: students (agent)
- ARG1: prize (theme)

2. They gave us a gift.

**- Universal POS:**

- They (PRON)
- gave (VERB)
- us (PRON)
- a (DET)
- gift (NOUN)

**- Universal Dependency:**

- nsubj(gave, They)
- iobj(gave, us)
- det(gift, a)
- obj(gave, gift)

**- PropBank Semantic Role:**

- ARG0: They (agent)
- ARG2: us (recipient)
- ARG1: gift (theme)

3. John saw the monkey with the telescope.

**- Universal POS:**

- John (PROPN)
- saw (VERB)
- the (DET)
- monkey (NOUN)
- with (ADP)
- the (DET)
- telescope (NOUN)

**- Universal Dependency:**

- nsubj(saw, John)

- det(monkey, the)
- obj(saw, monkey)
- case(telescope, with)
- det(telescope, the)
- nmod(saw, telescope)

**- PropBank Semantic Role:**

- ARG0: John (agent)
- ARG1: monkey (theme)
- ARGM-MNR: telescope (instrument)

**4. Time flies like an arrow.**

**- Universal POS:**

- Time (NOUN)
- flies (VERB)
- like (ADP)
- an (DET)
- arrow (NOUN)

**- Universal Dependency:**

- nsubj(flies, Time)
- case(arrow, like)
- det(arrow, an)
- obl(flies, arrow)

**- PropBank Semantic Role:**

- ARG0: Time (agent)
- ARG1: flies (theme)
- ARGM-MNR: like an arrow (manner)

**5. John is intelligent.**

**- Universal POS:**

- John (PROPN)
- is (AUX)
- intelligent (ADJ)

**- Universal Dependency:**

- nsubj(intelligent, John)
- cop(intelligent, is)

**- PropBank Semantic Role:**

- ARG0: John (agent)
- ARG1: intelligent (attribute)

**6. Submit this assignment as a soft copy.**

**- Universal POS:**

- Submit (VERB)
- this (DET)
- assignment (NOUN)
- as (ADP)
- a (DET)
- soft (ADJ)
- copy (NOUN)

**- Universal Dependency:**

- obj(Submit, assignment)
- det(assignment, this)
- case(copy, as)
- det(copy, a)
- amod(copy, soft)
- obl(Submit, copy)

**- PropBank Semantic Role:**

- ARG0: (implied agent)
- ARG1: assignment (theme)
- ARGM-MNR: soft copy (manner)

Q: Give Named Entity tags for the following.

(7) Bill Gates founded Microsoft in 1975.

**Named Entity Tags**

**7.** Bill Gates founded Microsoft in 1975.

**- Named Entities:**

- Bill Gates: PERSON
- Microsoft: ORG
- 1975: DATE