

**MINHAJ UNIVERSITY LAHORE**

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**Course Title: Compiler Constriction**

**Course Code: COMP-413  
Program: BSCS**

**Semester: 8th**

Assignment No 02

Find the follow() sets of the following

1. S -> aBDh

B -> cC

C -> bC | Є

D -> EF

E -> g | Є

F -> f | Є

* Follow(S) = {$}
* Follow (B) = {First (D) – ∈} ∪ First (h) = {g, f, h}
* Follow (C) = Follow (B) = {g, f, h}
* Follow (D) = First (h) = {h}
* Follow (E) = {First (F) – ∈} ∪ Follow (D) = {f, h}
* Follow (F) = Follow (D) = {h}

1. S -> ACB| Cbb | Ba

A -> da|BC

B-> g|Є

C-> h| Є

* S -> ACB | Cbb | Ba: Add $ to follow(S).
* A -> da | BC: Add first (CBb) - {ε} to follow (A).
* B -> g | ε: Add follow (A) to follow (B).
* C -> h | ε: Add follow (B) to follow(C).

Follow (S) = {$}

Follow (A) = {$}

Follow (B) = {$}

Follow (C) = {$}