## CS & IT ENGINEERING

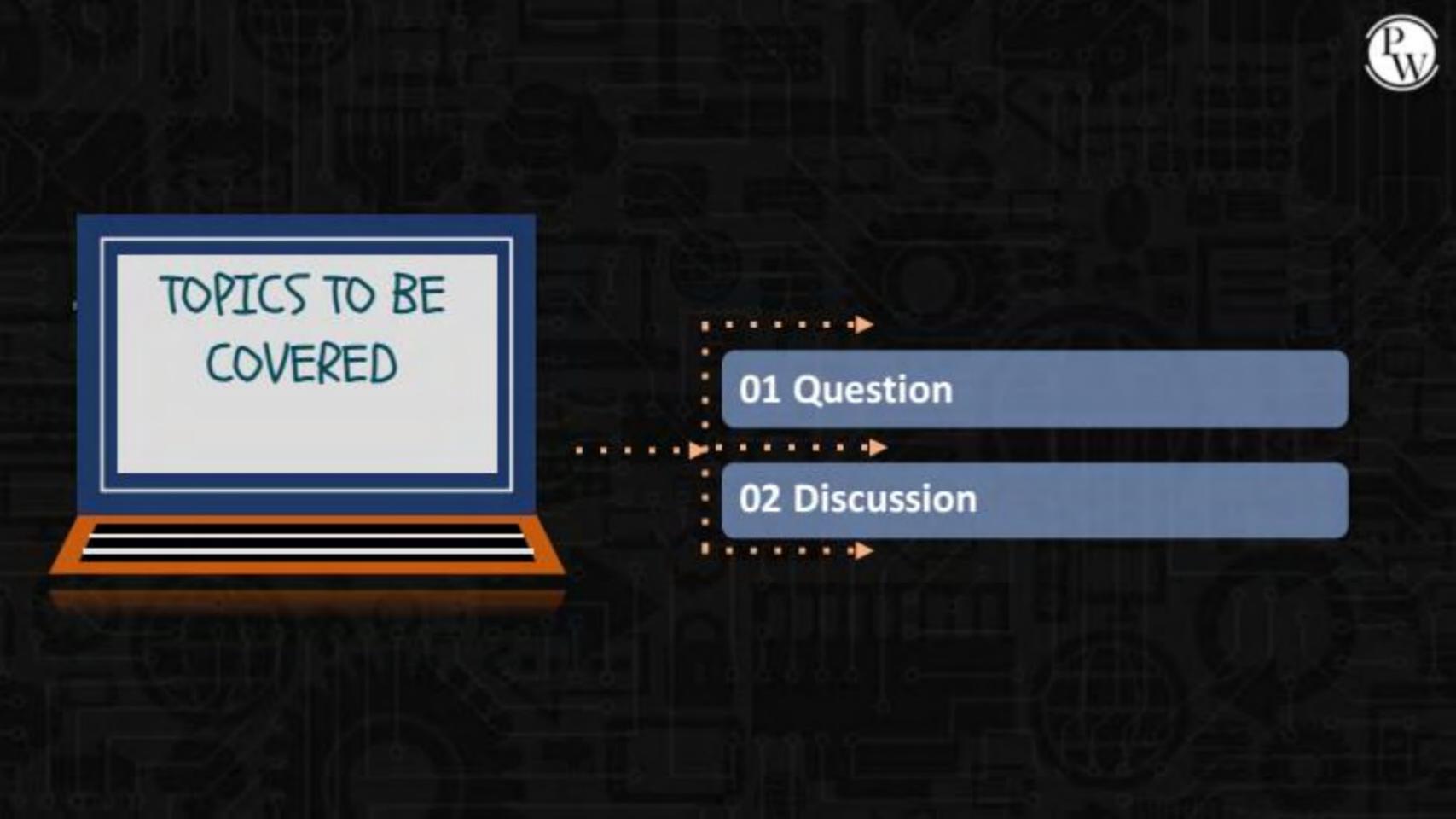


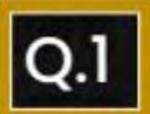
Functions and Storage Classes

**DPP-01** Discussion



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Consider the following program:

The sum of the printed values is

4-96 [NAT]



```
#include<stdio.h>
       intf2(inta){
         int b=0;
                             1=0
         b=b+5; 25
                                b-= f1(a)-f2(a);
         return a*b;
                      fia
                                       125 - 25
       intf1(inta){
£2(5)
         int b;
                                 b = = 100
         b=f2(a);
                                 b = b-100
         return a*b; 135
                        25
                               ⇒ b = 4-100=(-96)
       int main(){
         int i, a=5, b=4;
                                -96+(-196)
         for(i=0;i<2;i++){}
           b=f1(a)-f2(a);
           printf("%d\t", b);
         return 0;
```

$$i = 1$$

$$b = f(a) - f2(a)$$

$$f(5)$$

$$f(5)$$

$$b = 125 - 25$$

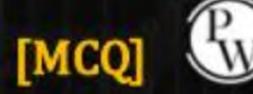
$$b = 100$$

$$b = b - 100$$

$$= -96 - 100$$

$$5 - -196$$





## Consider the following program:

```
#include < stdio.h> -8 \rightarrow 7 voe \checkmark void print ( int ) (
```

int main(){

\text{void print();} \text{dec (ar ation print(-9);} \text{print(-9);} \text{D}

Which of the following is correct?

Compilation error

"GATE Wallah" will be printed

infinite number of times.

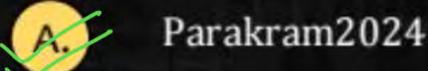
"GATE Wallah" will be printed 5 times.

"GATE Wallah" will be printed 4 times.



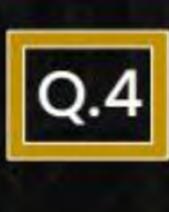


```
Consider the following program.
#include<stdio.h>
void f(inta){ 4
                              n << 1+n
  switch(n << 1+n){
    default: printf("Sresth");
                                      1+1
    case(4)*printf("Parakram");
                                  かくく え
    case 3: printf("2024");
                                 \Rightarrow nxa^2
    break;
                                 =) 1x22
    case 2: printf("2025");
int main(){
  f(1);
   return 0;
The output is-
```



<<

- B. SresthParakram2024
- C. Parakram
- D. Sresth2025



x= >f("/d", >f("wallah [MCQ] Barakram"));
en >3 Consider the following program: #include<stdio.h> void f(){ int x; x = bf("/d", s) = bf("") Pbf("2024") : bf("/d", bf("wallah Paraksam") . exp(") = exp(") = exp(") : bf("/d", bf("wallah Paraksam") .x=10<5?printf("%d",printf("GATE")):printf("")?printf("2024"):printf("%d",printf("Wallah Parakram")); x = 10<5? \( \frac{1}{2020} \) int main(){ f(); return 0; False The output is-Wallah Parakram 15 13 **GATE2024** Wallah Parakram15



GATEWallah Parakram4

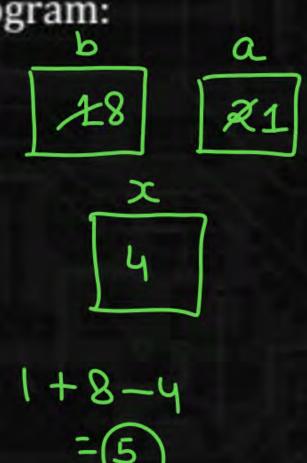


GATE4



## Consider the following program:

```
#include<stdio.h>
int f(int b, int a){
   int x;
   x=a << b;
   b=x*a--;
   return a+b-x;
int main(){
   printf("%d", f(1,2));
   return 0;
The value printed is
```



$$\begin{array}{l} 2 << 1 \\ \Rightarrow 2 \times 2^{1} \Rightarrow 4 \\ b = x \times a - 1 \\ (i) \text{ use a } b = x \times a \\ (ii) \text{ a = a - 1} \\ b = 4 \times 2 = 8 \end{array}$$

## Q.6

Consider the following program:

#include <stdio.h>

int r(int num){

return --num;

}

int main(){

int n=4;

for (r(n);r(n++);r(--n))

printf("%d\t",r(--n));

return 0;

}

The output is-



123

331

В.

1234



321

D.

4321

