

Assignment 2

Q- Determination of HK Information Factor of a system having different modules with in-out information.

Ans.

```
#include <stdio.h>
```

```
#include <math.h>
```

```
struct Module {  
    int ini;  
    int outi;  
    int weight;  
};
```

```
int calculateHKi(struct Module module) {  
    return module.weight * pow((module.outi * module.ini), 2);  
}
```

```
int main() {  
    struct Module modules[] = {{4, 3, 1}, {3, 3, 1}};  
    int totalHK = 0;  
  
    for (int i = 0; i < 2; i++) {  
        totalHK += calculateHKi(modules[i]);  
    }  
  
    printf("Total HK: %d\n", totalHK);  
  
    return 0;  
}
```

Output

```
/tmp/fLQiM0iQYe.o
```

```
Total HK: 225
```

```
|
```