

Q. Write a program to read a number from user and print its multiplication table.

Method: 1 (For loop)

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

```
int main(){  
    int num;  
  
    printf("Enter a number: ");  
    scanf("%d", &num);  
  
    for (int i = 0; i < 10; ){  
        i++;  
        printf("%d x %d = %d\n", num, i, num * i);  
    }  
  
    return 0;  
}
```

Method: 2 (For loop)

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

```
int main(){  
    int num;  
  
    printf("Enter a number: ");  
    scanf("%d", &num);  
  
    for (int i = 10, j = 1; i >= 1; i--){
```

```
    printf("%d x %d = %d\n", num, j, num * j);
    j++;
}

return 0;
}
```

Method: 3 (For loop)

```
#include<stdio.h>

int main(){
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);
    for (int i = 1; i <= 10; i++){
        printf("%d x %d = %d\n", num, i, num * i);
    }
    return 0;
}
```

Method: 4 (While loop)

```
#include<stdio.h>

int main(){
    int num, i = 1, product;

    printf("Enter any number: ");
    scanf("%d", &num);

    while (i <= 10){
```

```
        product = num * i;
        printf("%d x %d = %d\n", num, i, product);
        i++;
    }

    return 0;

}
```

Method: 5 (Do While loop)

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

```
int main(){
    int num, i = 1, product;

    printf("Enter any number: ");
    scanf("%d", &num);

    do{
        product = num * i;
        printf("%d x %d = %d\n", num, i, product);
        i++;
    } while (i <= 10);

    return 0;

}
```