PAGE NO. :
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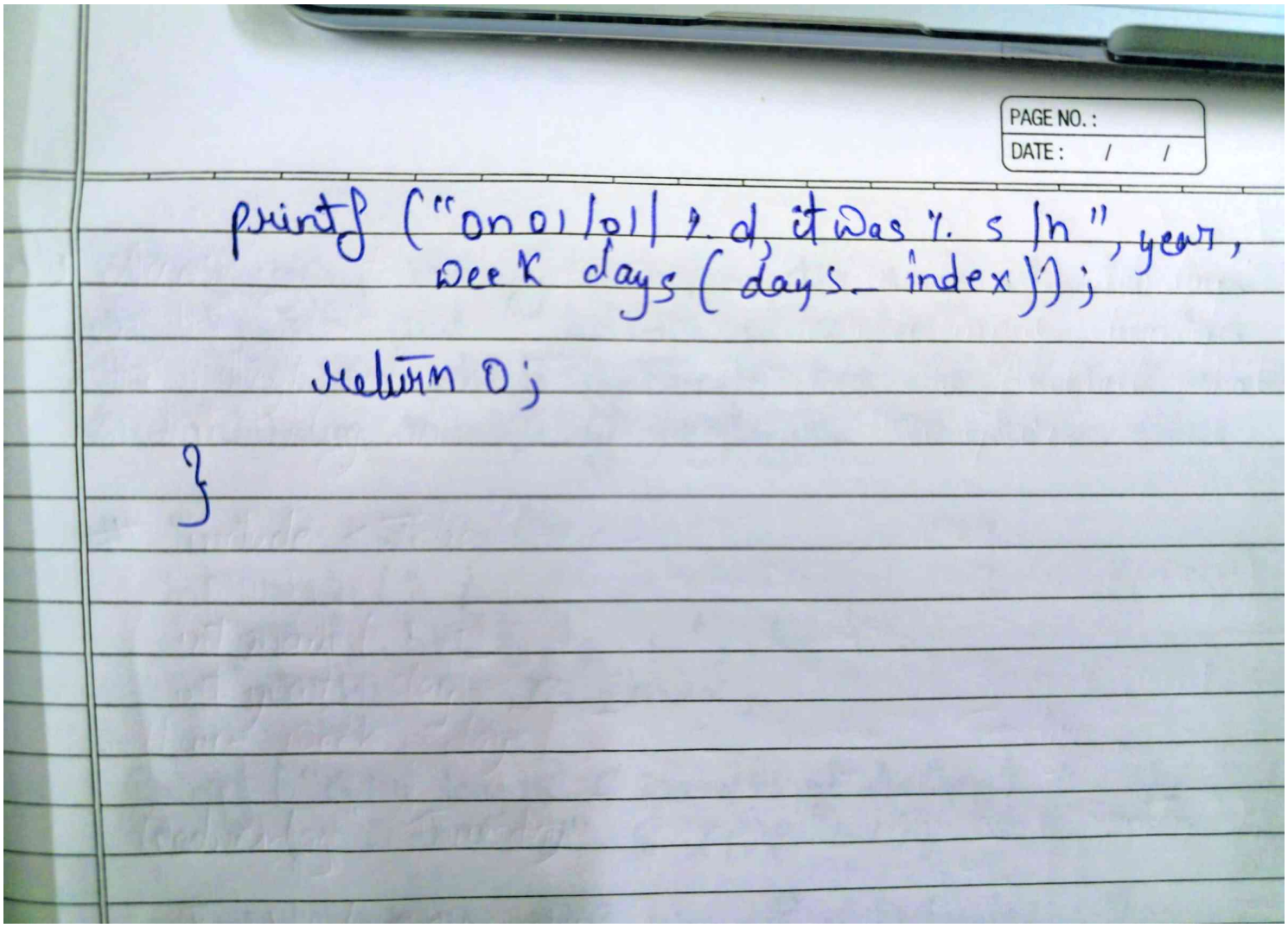
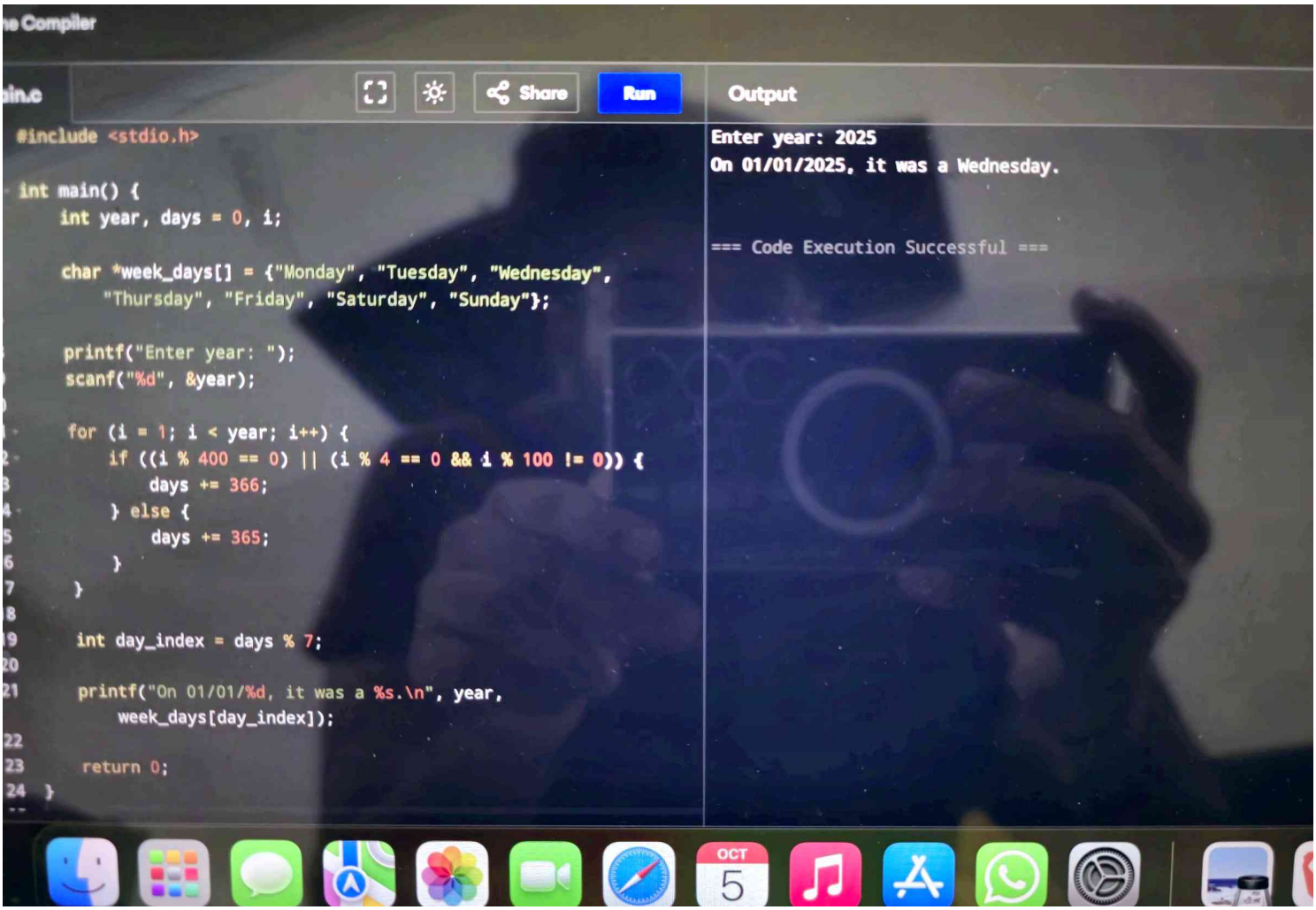
Q.4 According to the gregorian calender, it was Monday on the date 01/01/01. If any year is input through the keyboard write a program to find out what is the day on 1st January of this year.

```
# include <stdio.h>

int main ( ) {
int year, day = 0 , i;
Char * week, days [ 7 ] : { "Monday", "Tuesday",
"Wednesday", "Thursday", "Friday", "Saturday", "Sunday" );

Printf ("Enter year : ");
Scanf ("%d", & year);

for (i = 1; i < year ; i++) {
if ((i % 400 = = 0) || (i %. 4 = = 0 && i %.100 != 0)
days + = 366;

else
    days + = 365 ;
}
Int day - index = days %. 7;
```


PAGE NO. :
DATE : / /
printf ("on 0 1/0 1/ %. d, it was %. s \n", year,
week days (days_ index));
return 0;
}


Compiler
Share
Run
Output
#include <stdio.h>
int main() {
int year, days = 0, i;
char *week_days[] = {"Monday", "Tuesday", "Wednesday",
"Thursday", "Friday", "Saturday", "Sunday"};
printf("Enter year: ");
scanf("%d", &year);
for (i = 1; i < year; i++) {
if ((i % 400 == 0) || (i % 4 == 0 && i % 100 != 0)) {
days += 366;
} else {
days += 365;
}
}
int day_index = days % 7;
printf("On 01/01/%d, it was a %s.\n", year,
week_days[day_index]);
return 0;
}
Enter year: 2025
On 01/01/2025, it was a Wednesday.
=== Code Execution Successful ===
OCT
5