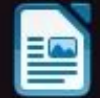
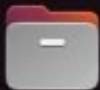




sit@sit-HP-Pavilion-Laptop-15-eh1xxx: ~/parinita_1086_os/exp_2a.c



```
#include <stdio.h>
int main() {
int year;
printf("Enter year: ");
scanf("%d", &year);
if (year%400 == 0) {
printf("Leap Year"); }
else if (year%100 == 0) {
printf("Not a leap year"); }
else if (year%4==0) {
printf("Leap year"); }
else {
printf("Not a leap year");
}
return 0;
}
```



sit@sit-HP-Pavilion-Laptop-15-eh1xxx: ~/parinita_1086_os/exp_2a.c/exp_2b.c



```
#include <stdio.h>
int main() {
int n = 2;
switch (n) {
case 1: printf("One"); break;
case 2: printf("Two"); break;
case 3: printf("Invalid");
}
return 0;
}
```



sit@sit-HP-Pavilion-Laptop-15-eh1xxx: ~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c



```
#include <stdio.h>
int main() {
int n, a=0, b = 1, c;
printf("Enter number of terms: ");
scanf("%d", &n);
for(int i = 1; i <=n; i++){
printf("%d ", a);
c = a+b;
a=b;
b=c;
}
return 0;
}
```



sit@sit-HP-Pavilion-Laptop-15-eh1xxx: ~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2

```
#include <stdio.h>
int main() {
int i = 1;
while (i<=5) {
printf("%d\n",i);
i++;
}
return 0;
}
```



sit@sit-HP-Pavilion-Laptop-15-eh1xxx: ~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c/exp_2e.c

```
#include <stdio.h>
int main() {
int i = 1;
do {
printf("%d", i);
i++;
} while (i<=5);
return 0;
}
```

sit@sit-HP-Pavilion-Laptop-15-eh1xxx: ~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c/exp_2e.c

```
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ mkdir parinita_1086_os
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ cd parinita_1086_os
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os$ mkdir exp_2a.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os$ cd exp_2a.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c$ vi exp_2a.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c$ gcc exp_2a.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c$ ./a.out
Enter year: 2025
Not a leap yearsit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c$ mkdir exp_2b.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c$ cd exp_2b.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c$ vi exp_2b.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c$ gcc exp_2b.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c$ ./a.out
Twosit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c$ mkdir exp_2c.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c$ cd exp_2c.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c$ vi exp_2c.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c$ gcc exp_2c.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c$ ./a.out
Enter number of terms: 3
0 1 1 sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c$ mkdir exp_2d.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c$ cd exp_2d.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c$ vi exp_2d.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c$ gcc exp_2d.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c$ ./a.out
1
2
3
4
5
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c$ mkdir exp_2e.c
Command 'mkdir' not found, did you mean:
  command 'mkdir' from deb coreutils (8.32-4.1ubuntu1.2)
  command 'mdir' from deb mtools (4.0.33-1+really4.0.32-1build1)
Try: sudo apt install <deb name>
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c$ mkdir exp_2e.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c$ cd exp_2e.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c/exp_2e.c$ vi exp_2e.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c/exp_2e.c$ gcc exp_2e.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c/exp_2e.c$ ./a.out
12345sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~/parinita_1086_os/exp_2a.c/exp_2b.c/exp_2c.c/exp_2d.c/exp_2e.c$
```



sit@sit-HP-Pavilion-Laptop-15-eh1xxx: ~

```
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ nano processcreation_1086.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ gcc processcreation_1086.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ ./a.out
Parent Process Started
Parent PID: 2741

Child PID: 2742
Child PID: 2742
Parent PID: 2742
1086a.c
1086b.c
1086.c
1086c.c
1086_os
a.out
Desktop
Documents
Downloads
Music
panu
parinita_1086_os
Pictures
processcreation_1086.c
Public
snap
Templates
Videos

Child process completed
Parent process exiting
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$
```



GNU nano 6.2

1086c.c *

```
#include <stdio.h>
int main() {
int n, rev = 0, rem;
printf("Enter number: ");
scanf("%d", &n);
while(n!=0) {
rem = n%10;
rev = rev*10+rem;
n = n/10;
}
printf("Reversed = %d", rev);
return 0;
}
```



GNU nano 6.2

processcreation_1086.c *

```
#include <stdio.h>
#include <unistd.h>
#include <sys/wait.h>

int main() {
    pid_t pid;
    printf("Parent Process Started\n");
    printf("Parent PID: %d\n", getpid());

    pid = fork();

    if(pid<0){
        printf("Process creation failed\n");
    }
    else if(pid == 0) {
        printf("\nChild PID: %d\n", getpid());
        printf("Child PID: %d\n", getpid());
        printf("Parent PID: %d\n", getpid());

        execl("/bin/ls", "ls", "-l", NULL);
        printf("Exec failed\n");
    }
    else {
        wait(NULL);
        printf("\nChild process completed\n");
        printf("Parent process exiting\n");
    }
    return 0;
}
```



GNU nano 6.2

1086b.c *

```
#include <stdio.h>
int main() {
int n, i, flag = 0;
printf("Enter number : ");
scanf("%d", &n);
for(i=2; i < n; i++){
if(n%i==0) {
flag = 1;
break;
}
}
if (flag == 0) {
printf("Prime");
}
else {
printf("Not prime");
}
return 0;
}
```



sit@sit-HP-Pavilion-Laptop-15-eh1xxx: ~

```
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ nano 1086.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ gcc 1086.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ ./a.out
Enter value of a: 4
Enter value of b: 3
Addition is : 7Subtraction is : 1Multiplication is : 12Division is : 1sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ nano 1086a.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ gcc 1086a.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ ./a.out
Enter a number : 3
Factorial is : 6sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ nano 1086b.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ gcc 1086b.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ ./a.out
Enter number : 6
Not primesit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ nano 1086c.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ gcc 1086c.c
1086c.c: In function 'main':
1086c.c:4:1: warning: implicit declaration of function 'preintf'; did you mean 'printf'? [-Wimplicit-function-declaration]
    4 | preintf("Enter number: ");
      | ~~~~~~
      | printf
/usr/bin/ld: /tmp/ccPCDBl8.o: in function 'main':
1086c.c:(.text+0x32): undefined reference to `preintf'
collect2: error: ld returned 1 exit status
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ nano 1086c.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ gcc 1086c.c
sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$ ./a.out
Enter number: 789
Reversed = 987sit@sit-HP-Pavilion-Laptop-15-eh1xxx:~$
```



sit@sit-HP-Pavilion-Laptop-15-eh1xxx: ~

GNU nano 6.2

1086a.c *

```
#include <stdio.h>
int main() {
    int n, i;
    int fact = 1;
    printf("Enter a number : ");
    scanf("%d", &n);

    for(int i = 1; i <= n; i++) {
        fact = fact*i;
    }
    printf("Factorial is : %d", fact);
    return 0;
}
```



GNU nano 6.2

1086.c

```
#include <stdio.h>
int main() {
int a, b, add, sub, mul, div;
printf("Enter value of a: ");
scanf("%d", &a);
printf("Enter value of b: ");
scanf("%d", &b);
add = a+b;
sub = a-b;
mul = a*b;
div = a/b;

printf("Addition is : %d", add);
printf("Subtraction is : %d", sub);
printf("Multiplication is : %d", mul);
printf("Division is : %d", div);
return 0;
}
```