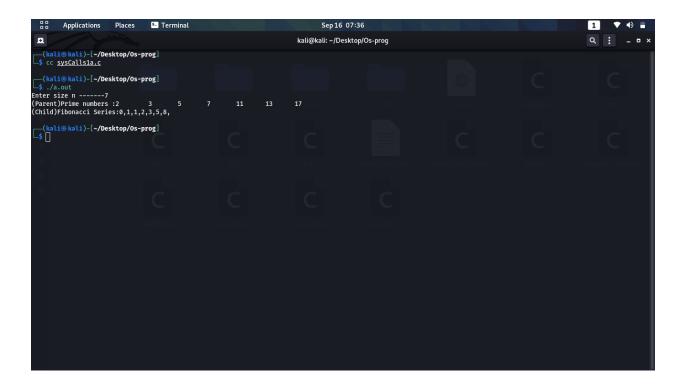
SYSTEM CALLS

```
1)
  Code:
#include <stdio.h>
#include <unistd.h>
int main()
int t1=0,t2=1,n,i,j,temp,count=1,flag,nextTerm,k=2;
nextTerm=t1+t2;
printf("Enter size n -----");
scanf("%d",&n);
temp=fork();
if(temp==0)
printf("(Child)Fibonacci Series:%d,%d,",t1,t2);
for(i=3;i<=n;++i){}
printf("%d,",nextTerm);
t1=t2;
t2=nextTerm;
nextTerm=t1+t2;
}
printf("\n");
}
else if(temp>0){
printf("(Parent)Prime numbers :");
while(count<=n){
flag=0;
for (j = 2; j \le k / 2; j++)
  if (k \% j == 0)
        flag = 1;
```

```
break;
}
if (flag == 0)
{
    printf("%d\t", k);
    count++;
}
k++;
}
printf("\n");
}
return 0;
}
```

OUTPUT



2)

CODE:-

#include <stdio.h>
#include <unistd.h>
#include <sys/wait.h>
void main()

```
int n;
printf("Enter the value of N: ");
scanf("%d", &n);
printf("\nParent pid (Main process) %d at level 0\n", getpid());
for (int i = 1; i \le n; i++)
if (fork() == 0) // CHILD 1
printf("Child pid %d from parent pid %d at level %d\n",
getpid(), getppid(), i);
else if (fork() == 0) // CHILD 2
printf("Child pid %d from parent pid %d at level %d\n",
getpid(), getppid(), i);
else
{
wait(NULL);
i = n + 1;
}
}
```

OUTPUT

3)

Input

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

```
#include <sys/wait.h>
int main()
printf("A: %d\n", getpid());
if (fork() == 0)
printf("B: %d forked by %d\n", getpid(), getppid());
if (fork() == 0)
printf("D: %d forked by %d\n", getpid(), getppid());
if (fork() == 0)
printf("H: %d forked by %d\n", getpid(), getppid());
if (fork() == 0)
printf("I: %d forked by %d\n", getpid(), getppid());
else
wait(NULL);
}
else
wait(NULL);
else if (fork() == 0)
printf("E: %d forked by %d\n", getpid(), getppid());
else if (fork() == 0)
printf("F: %d forked by %d\n", getpid(), getppid());
else
wait(NULL);
else if (fork() == 0)
printf("C: %d forked by %d\n", getpid(), getppid());
if (fork() == 0)
printf("G: %d forked by %d\n", getpid(), getppid());
else
wait(NULL);
else
wait(NULL);
return 0;
}
```

OUTPUT