OS Lab 7
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Task 1

```c
#include <unistd.h>
#include <stdio.h>
#include <stdlib.h>
int main(){
int mod;
int sum =0;
int array[10];
for (int i = 0; i<10 ; i++){
printf("Enter number of array %d : ",i);
scanf("%d",&array[i]);}
pid_t pid = fork();
if( pid == 0){
for (int i =0 ; i< 10 ; i++){
mod = array[i] % 2;
if (mod == 0){
sum = sum + array[i];}}
printf("Hello from Child!\n");
printf("Sum of Even Numbers : %d",sum);
printf("\nChild Pid : %d\n", getpid());
printf("Child PPid : %d\n", getppid());}
else{
for (int i =0 ; i< 10 ; i++){
mod = array[i] % 2;
if (mod == 1){
sum = sum + array[i];}}
printf("Hello from Parent!\n");
printf("Sum of Odd Numbers : %d",sum);
printf("\nParent Pid : %d\n", getpid());}
return 0;}
```

Output

```
┌──(kali㊀kali)-[~/Documents/Lab_7]
└─$ ./obj
Enter number of array 0 : 1
Enter number of array 1 : 2
Enter number of array 2 : 3
Enter number of array 3 : 4
Enter number of array 4 : 5
Enter number of array 5 : 6
Enter number of array 6 : 7
Enter number of array 7 : 8
Enter number of array 8 : 9
Enter number of array 9 : 0
Hello from Parent!
Sum of Odd Numbers : 25
Parent Pid : 55264
Hello from Child!
Sum of Even Numbers : 20
Child Pid : 55290
Child PPid : 55264

┌──(kali㊀kali)-[~/Documents/Lab_7]
└─$
```