1) Using fork() method to create a child process

```
#include<stdio.h>
int main()
{
  int pid;
  pid=fork();
  if(pid==0)
  {
  printf("Hello from child %d\n",pid);
  }
  else
  {
  printf("Hi from parent process\n");
  }
}
```

## Output:

Code:

2) Using execve

```
Code:
sum.c
#include<stdio.h>
int main()
{
int i,s;
```

```
for(i=1;i<6;i++)
{
    s=s+i;
}
    printf("Sum is %d",s);
}
    execv.c
#include<stdio.h>
    int main()
{
    int pid,i;
    pid=fork();
    if(pid==0)
    {
        int i=execv("/home/sai",NULL,NULL);
    }
    else
    {
        printf("This is the parent process");
    }
}
```

## Output:

## 3) Blocking the parent process

```
Code:
#include<stdio.h>
#include<sys/wait.h>
int main()
```

```
pid_t pid;
int status;
pid=fork();
if(pid<0)
{
    printf("fork error");
    }
    else if(pid==0)
    {
        printf("Child process is terminating\n");
        exit(0);
    }
    if(wait(&status)!=pid)
    {
        printf("wait error");
    }
    else
    {
        printf("parent is terminated permanently\n");
    }
}
Output:</pre>
```

```
pavani-17mis1013@pavani17mis1013-VirtualBox:~$ gedit block.c
pavani-17mis1013@pavani17mis1013-VirtualBox:~$ gcc block.c
block.c: In function 'main':
block.c:7:5: warning: implicit declaration of function 'fork' [-Wimplicit-functi
on-declaration]
pid=fork():
block.c:15:1: warning: implicit declaration of function 'exit' [-Wimplicit-funct
ion-declaration]
exit(0);
block.c:15:1: warning: incompatible implicit declaration of built-in function 'e
block.c:15:1: note: include '<stdlib.h>' or provide a declaration of 'exit'
block.c:3:1:
+#include <stdlib.h>
int main()
block.c:15:1:
exit(0);
pavani-17mis1013@pavani17mis1013-VirtualBox:~$ ./a.out
Child process is terminating
parent is terminated permanently
pavani-17mis1013@pavani17mis1013-VirtualBox:~$
```