Task3

1) Nothing happened. That means the new program will not inherit the environment variables.

```
[09/09/21]seed@VM:~/Lab1$ vi task3.c
[09/09/21]seed@VM:~/Lab1$ cat task3.c
#include <stdio.h>
#include <stdlib.h>
extern char **environ;
int main()
char *argv[2];
argv[0] = "/usr/bin/env";
argv[1] = NULL;
execve("/usr/bin/env", argv,NULL);
return 0 ;
[09/09/21]seed@VM:~/Lab1$ gcc task3.c -o task3
task3.c: In function 'main':
task3.c:10:1: warning: implicit declaration of function 'ex
ecve' [-Wimplicit-function-declaration]
execve("/usr/bin/env", argv, NULL);
[09/09/21]seed@VM:~/Lab1$ ./task3
[09/09/21]seed@VM:~/Lab1$
```

2) After changing the third argument in execve from NULL to passing "environ," the environment variables are passed and printed.

```
[09/09/21]seed@VM:-/Labl$ cat task3.c
#include <stdio.h>
#include <stdio.h>
#include <stdib.h>

extern char **environ;
int main()
{
    char *argv[2];
    argv[0] = "/usr/bin/env";
    argv[1] = NULL;
    execve("/usr/bin/env", argv,environ);
    return 0;
}
[09/09/21]seed@VM:-/Labl$ ./task3
XDG_VTNR-7
XDG_SESSION_ID=c1
XDG_GREETER_DATA_DIR=/var/lib/lightdm-data/seed
CLUTTER_IM_MODULE=xim
SESSION=abuntu
ANDROID_HOME=/home/seed/android/android-sdk-linux
GPG_AGENT_INFO=/home/seed/.gnupg/S.gpg-agent:0:1
TERM=xterm-256color
VTE_VERSION=a205
XDG_MENU_PREFIX=gnome-
SHELL=/bin/bash
DERBY_HOME=/usr/lib/jvm/java-8-oracle/db
OT_LINUX_ACCESSIBILITY_ALWAYS_ON=1
LD_PRELOAD=/home/seed/lib/boost/libboost_program_options.so
```

3) We conclude that the third argument to execve specifies which environment variables the new process should get.

Task4

1) After compiling and running, we can confirm that the environment variables of the calling process is passed to the new program using system().

```
calling process is passed to the new programmer calling process is passed to the new process is passed to t
```

Task5

1)