

2021_12_02

December 1, 2021

1 2021-12-02

1.0.1 Corso ITS

1.1 Magento & e-commerce software

1.2 ### Fondamenti di Programmazione (Andrea Ribuoli)

```
[3]: !git clone https://github.com/andrearibuoli/EserciziC.git; \
mv EserciziC/*.c .; \
mv EserciziC/*.h .; \
mv EserciziC/Makefile .; \
rm -rf EserciziC
```

```
Cloning into 'EserciziC'...
remote: Enumerating objects: 33, done.
remote: Counting objects: 100% (33/33), done.
remote: Compressing objects: 100% (28/28), done.
remote: Total 33 (delta 9), reused 24 (delta 4), pack-reused 0
Receiving objects: 100% (33/33), 343.95 KiB | 708.00 KiB/s, done.
Resolving deltas: 100% (9/9), done.
```

```
[5]: !ascii
```

	-0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-A	-B	-C	-D	-E	-F	
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2-		!	"	#	\$	%	&	'	()	*	+	,	-	.	/	
3-	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?	
4-	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
5-	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_	
6-	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	
7-	p	q	r	s	t	u	v	w	x	y	z	{		}	~		

```
[4]: !cyril
```

[illegible]

```
|43_| | | | | | | | | | | | | | | | |
|44_| | | | | | | | | | | | | | | |
```

```
[9]: !emoticons
```

```
|1F60_| | | | | | | | | | | | | | | |
|1F61_| | | | | | | | | | | | | | | |
|1F62_| | | | | | | | | | | | | | | |
|1F63_| | | | | | | | | | | | | | | |
|1F64_| | | | | | | | | | | | | | | |
```

```
[48]: !tree
```

```
.
|-- 2021_12_02.ipynb
|-- Makefile
|-- myapi
|   |-- converti_api.c
|   |-- converti_api.h
|   `-- Makefile
|-- tabella_ascii.c
|-- tabella_cyrillic.c
`-- tabella_emoticons.c
```

```
1 directory, 8 files
```

```
[8]: !make
```

```
make -C myapi
make[1]: Entering directory '/home/jupyter/ITS_Marche/Fondamenti di
Programmazione/2021_12_02/myapi'
make[1]: Nothing to be done for 'all'.
make[1]: Leaving directory '/home/jupyter/ITS_Marche/Fondamenti di
Programmazione/2021_12_02/myapi'
```

```
[50]: !tree
```

```
.
|-- 2021_12_02.ipynb
|-- ascii
|-- cyril
|-- emoticons
|-- Makefile
|-- myapi
|   |-- converti_api.c
|   |-- converti_api.h
|   |-- converti_api.o
|   |-- libutf8.so
|   `-- Makefile
|-- tabella_ascii.c
```

```
|-- tabella_ascii.o
|-- tabella_cyrillic.c
|-- tabella_cyrillic.o
|-- tabella_emoticons.c
`-- tabella_emoticons.o
```

1 directory, 16 files

1.3 root Makefile

```
all: sub-make emoticons cyril ascii
```

```
sub-make:
```

```
    make -C myapi
```

```
emoticons : tabella_emoticons.o
```

```
    gcc -o emoticons -I./myapi -L./myapi -lutf8 tabella_emoticons.o
```

```
cyril : tabella_cyrillic.o
```

```
    gcc -o cyril -I./myapi -L./myapi -lutf8 tabella_cyrillic.o
```

```
ascii : tabella_ascii.o
```

```
    gcc -o ascii -L./myapi -lutf8 tabella_ascii.o
```

```
tabella_emoticons.o : tabella_emoticons.c
```

```
    gcc -c -I./myapi -o tabella_emoticons.o tabella_emoticons.c
```

```
tabella_cyrillic.o : tabella_cyrillic.c
```

```
    gcc -c -I./myapi -o tabella_cyrillic.o tabella_cyrillic.c
```

```
tabella_ascii.o : tabella_ascii.c
```

```
    gcc -c -I./myapi -o tabella_ascii.o tabella_ascii.c
```

1.4 Inner Makefile

```
all : libutf8.so
```

```
libutf8.so : converti_api.o
```

```
    gcc -shared -o libutf8.so converti_api.o
```

```
converti_api.o : converti_api.c converti_api.h
```

```
    gcc -c -o converti_api.o converti_api.c
```