

# List 10: prediction for logit/probit-regressions

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## Содержание

<b>1 labour force equation</b>	<b>1</b>
<b>2 approve equation</b>	<b>1</b>
<b>3 swiss labour force equation</b>	<b>2</b>

## Warning: пакет 'zoo' был собран под R версии 4.5.2

## 1 labour force equation

For the dataset `TableF5-1` consider regression **LFP** на **WA**, **log(FAMINC)**, **WE**, **KL6**, **K618**, **CIT**, **UN** of the following specifications:

- logit
- probit

Consider people with characteristics

	WA	FAMINC	WE	KL6	K618	CIT	UN
1	35	12500	15	2	0	1	5
2	40	9800	12	1	2	0	7.500
3	42	67800	14	2	1	1	3

Evaluate prediction for each individual in the sample. **Round the answer to 3 decimal places.**

Answer:

	Pred.logit	Pred.probit
1	0.209	0.214
2	0.300	0.307
3	0.192	0.196

## 2 approve equation

For the dataset `loanapp` consider regression **approve** на **appinc/100**, **mortno**, **unem**, **dep**, **male** of the following specifications:

- logit
- probit

Consider people with characteristics

```
=====
  appinc mortno unem  dep male
-----
1  120      1    1.800  0    1
2   48      1    3.200  0    0
3   82      0    3.900  1    1
-----
```

Evaluate prediction for each individual in the sample. **Round the answer to 3 decimal places.**

Answer:

```
=====
  Pred.logit Pred.probit
-----
1    0.941      0.943
2    0.930      0.930
3    0.853      0.853
-----
```

### 3 swiss labour force equation

For the dataset `SwissLabour` consider regression **participation** on **income**, **income<sup>2</sup>**, **age**, **age<sup>2</sup>**, **youngkids**, **oldkids** of the following specifications:

- logit
- probit

Consider people with characteristics

```
=====
  income  age  youngkids oldkids
-----
1 11.367 2.500      0      0
2  9.217 3.700      2      0
3 10.686 4.200      2      1
-----
```

Evaluate prediction for each individual in the sample. **Round the answer to 3 decimal places.**

Answer:

```
=====
  Pred.logit Pred.probit
-----
1    0.367      0.371
2    0.626      0.624
3    0.182      0.186
-----
```