INPUT= user type/balance

user type

balance

ai

OUTPUT= annual interest(ai)

Senior=S

Minor=M

Personal=P

Other types=OT

Input user type

If

user type ==S

yes

Input balance

ai=balance\*0.15

no

If

user type==M

CV yes

ai=balance\*0.1

Input balance

no

If

user type== P

yes

Input balance

ai=balance\*0.7

d

no

If

user type==OT

yes

ai=balance\*0.04

Input balance

no

Output ai

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable name  instructions | user type | balance | | ai(annual interest) | |
| start |  |  | | ai=0 | |
| Input user type | Senior(S) |  | | ai=0 | |
| If  User type==S |  |  | | ai=0 | |
| Input balance |  | 20000 | | ai=0 | |
| Calculation  (ai=20000\*0.15) |  | 20000 | | ai=3000 | |
| Display ai (annual interest) |  |  | | ai=3000 | |
| Input user type | Minor(M) |  | |  | |
| If  User type== M |  |  | | ai=0 | |
| Input balance |  | 30000 | | ai=0 | |
| Calculation  (ai=30000\*0.1) |  | 30000 | | ai==3000 | |
| Display ai (annual interest) |  | 30000 | | ai==3000 | |
| Input user type | Personal(P) |  | |  | |
| If  User type== P |  |  | | ai=0 | |
| Input balance |  | 40000 | | ai=0 | |
| Calculation  ai=40000\*0.07 |  |  | | ai=2800 | |
| Display annual interest(ai) |  |  | | ai=2800 | |
| Input user type | Other Type (OT) |  | |  | |
| If  User type== OT |  |  | | ai=0 | |
| Input balance |  | 50000 | | ai=0 | |
|  | | | | | |
| Calculation  (ai=50000\*0.04) | |  | | 50000 | | ai=2000 |
| Display annual  interest(ai) | |  | |  | | ai=2000 |

* QUESTION 4 TABLE

|  |  |  |  |
| --- | --- | --- | --- |
| Variable name  instructions | Category(C) | Item amount(ia) | Total price(tp) |
| start |  | ia=0 | tp=0 |
| Input c | Wallet(W) |  |  |
| If c==W |  | ia=0 | tp=0 |
| Input ia |  | ia=4 | tp=0 |
| If  ia>3 then yes |  | ia=4 | tp=0 |
| Calculation  With discount  to=4(350-350\*0.02) |  | ia=4 | tp=1372 |
| Display total amount |  |  | tp=1372 |
| Input ia |  | ia=2 | tp=0 |
| If  ia>3 then no |  | ia=2 | tp=0 |
| Calculation without  Discount  tp=2\*350 |  |  | tp=700 |
| Display total price |  |  | tp=700 |
| If  Wrong category  Display “invalid category” |  |  |  |