From the user, we are given a wind value and the unit to convert.
To convert between miles per hour ( $m p h$ ) and knots ( $k t s$ ):
Wind $_{k t s}=0.8689762 \times$ Wind $_{m p h}$
Wind $_{m p h}=1.1507794 \times$ Wind $_{k t s}$
To convert between miles per hour ( mph ) and meters per second $(\mathrm{m} / \mathrm{s})$ :
Windm $/ \mathrm{s}=0.44704 \times$ Wind $_{m p h}$
Wind $_{m p h}=2.23694 \times$ Windm $/ \mathrm{s}$
To convert between miles per hour ( mph ) and feet per second $(\mathrm{ft} / \mathrm{s})$ :
Wind $_{f t / s}=1.46667 \times$ Wind $_{m p h}$
Wind $_{m p h}=0.681818 \times$ Wind $_{f t} / s$
To convert between miles per hour ( mph ) and kilometers per hour $(\mathrm{km} / \mathrm{h})$ :
Wind $_{k m / h}=1.609344 \times$ Wind $_{m p h}$
Wind $_{m p h}=0.621371 \times$ Wind $_{k m} / \mathrm{h}$
To convert between knots ( $k t s$ ) and meters per second ( $\mathrm{m} / \mathrm{s}$ ):
$\mathrm{Windm}_{\mathrm{s}}=0.5144444 \times$ Wind $_{k t s}$
Wind $_{k t s}=1.9438445 \times \mathrm{Windm} / \mathrm{s}$

To convert between knots $(k t s)$ and feet per second $(f t / s)$ :
Wind $_{f t}{ }_{s}=1.6878099 \times$ Wind $_{k t s}$
Wind $_{k t s}=0.5924838 \times$ Wind $_{f t}{ }_{s}$
To convert between knots ( $k t s$ ) and kilometers per hour $(\mathrm{km} / \mathrm{h})$ :
Wind $_{k m / h}=1.852 \times$ Wind $_{m p h}$
Wind $_{\text {mph }}=0.5399568 \times$ Wind $_{k m} / h$
To convert between meters per second $(\mathrm{m} / \mathrm{s})$ and feet per second $(\mathrm{ft} / \mathrm{s})$ :
Windm $_{/ s}=0.3048 \times$ Wind $_{f t} / \mathrm{s}$
Wind $_{f t} / \mathrm{s}=3.28084 \times \mathrm{Windm}_{\mathrm{s}}$
To convert between meters per second ( $\mathrm{m} / \mathrm{s}$ ) and kilometers per hour $(k m / h)$ :

Wind $_{k m} / \mathrm{h}=3.6 \times \mathrm{Windm} / \mathrm{s}$
Windm $_{\mathrm{s}}=0.277778 \times$ Wind $_{k m} / \mathrm{h}$
To convert between feet per second $(f t / s)$ kilometers per hour $(\mathrm{km} / \mathrm{h})$ :
Wind $_{k m} / h=1.09728 \times$ Wind $_{f t} / s$
Wind $_{f t / s}=0.911344 \times$ Wind $_{k m} / h$

