Q1

A

In [1]:
```
import math
r = float(input('enter the value of radius in meter : '))
w = 10
v =r*w
print(v)
```

```
enter the value of radius in meter : 0.5
5.0
```

B

In [2]:
```
import math
r = float(input('enter the value of radius in meter : '))
w = 10
v =r*w
print(v)
```

```
enter the value of radius in meter : 1
10.0
```

C

In [3]:
```
import math
r = float(input('enter the value of radius in meter : '))
w = 10
v =r*w
print(v)
```

```
enter the value of radius in meter : 2
20.0
```

QUESTION 2

a

In [4]:
```
import math
r  = float(input('enter the value of radius  in meter : '))
w = 5000/60*6.28
v = r*w
print(v)
```

```
enter the value of radius  in meter : 0.05
26.16666666666667
```

In [5]:
```
import math
r  = float(input('enter the value of radius  in meter : '))
w = 5000/60*6.28
v = r*w
print(v)
```

```
enter the value of radius  in meter : 0.1
52.33333333333334
```

QUESTION 3

In [6]:
```
import math
r = float(input("enter the value of radius in meter"))
v = 10
w = v/r
print(w)
```

```
enter the value of radius in meter0.3
33.333333333333336
```

QUSTION 4

In [7]:
```
import math
r = float(input('enter the value of radius in meter : '))
v = float(input('enter the value of linear speed in meter/second :'))
w = v/r
print(w)
```

```
enter the value of radius in meter : 0.25
enter the value of linear speed in meter/second :10
40.0
```

QUESTION 5

In [8]:
```
w = float(input('enter the value of angular speed in rps'))
r = float(input('enter the value of radius in meter'))
t = int(input('enter the time in seconds'))
v = r*w
s = v*t
print(s)
```

```
enter the value of angular speed in rps12.56
enter the value of radius in meter0.2
enter the time in seconds10
25.120000000000005
```

QUESTION 6

In [10]:
```
u = float(input('enter the value of u miles/hr:'))
a = float(input('enter the value of a in miles/hr**2 : '))
t = int(input('enter the time in hour : '))
v = u + (a*t)
s = v*t
print(s)
```

```
enter the value of u miles/hr:50
enter the value of a in miles/hr**2 : 10
enter the time in hour : 2
140.0
```

QUESTION 7

In [11]:
```
s = float(input('enter the value of s in ft : '))
a = float(input('enter the value of a in ft/s**2 :'))
u = float(input('enter the value of u in ft/s : '))
v = (2*a*s + u**2)**(1/2)
print(v)
```

```
enter the value of s in ft : 100
enter the value of a in ft/s**2 :32
enter the value of u in ft/s : 0
80.0
```