circle1.py (Page 1 of 1)

```
 1: #!/usr/bin/env python
 2:
 3: #-----------------------------------------------------------------------
 4: # circle1.py
 5: # Author: Bob Dondero
 6: #-----------------------------------------------------------------------
 7:
 8: import math
 9:
10: #-----------------------------------------------------------------------
11:
12: def main():
13:
14:     line = input("Enter the circle's radius:\n")
15:     radius = int(line)
16:
17:     diam = 2 * radius
18:     circum = math.pi * float(diam)
19:
20:     print('A circle with radius', radius, 'has diameter', diam)
21:     print('and circumference %f.' % circum)
22:
23: #-----------------------------------------------------------------------
24:
25: if __name__ == '__main__':
26:     main()
```


circle2.py (Page 1 of 1)

```
 1: #!/usr/bin/env python
 2:
 3: #-----------------------------------------------------------------------
 4: # circle2.py
 5: # Author: Bob Dondero
 6: #-----------------------------------------------------------------------
 7:
 8: import sys
 9: import math
10:
11: #-----------------------------------------------------------------------
12:
13: def main():
14:
15:     try:
16:         line = input("Enter the circle's radius:\n")
17:         radius = int(line)
18:
19:         diam = 2 * radius
20:         circum = math.pi * float(diam)
21:
22:         print('A circle with radius', radius, 'has diameter', diam)
23:         print('and circumference %f.' % circum)
24:
25:     except Exception as ex:
26:         print(str(ex), file=sys.stderr)
27:
28: #-----------------------------------------------------------------------
29:
30: if __name__ == '__main__':
31:     main()
```

circle3.py (Page 1 of 1)

```
#!/usr/bin/env python

#-----------------------------------------------------------------------
# circle3.py
# Author: Bob Dondero
#-----------------------------------------------------------------------

import sys
import math

#-----------------------------------------------------------------------

def main():

    try:
        line = input("Enter the circle's radius:\n")
        radius = int(line)

        diam = 2 * radius
        circum = math.pi * float(diam)

        print('A circle with radius', radius, 'has diameter', diam)
        print('and circumference %f.' % circum)

    except ValueError:
        print('Error: Not an integer', file=sys.stderr)

    except EOFError:
        print('Error: Missing integer', file=sys.stderr)

#-----------------------------------------------------------------------

if __name__ == '__main__':
    main()
```


circle4.py (Page 1 of 1)

```
#!/usr/bin/env python

#-----------------------------------------------------------------------
# circle4.py
# Author: Bob Dondero
#-----------------------------------------------------------------------

import sys
import math

#-----------------------------------------------------------------------

def read_radius():

    line = input("Enter the circle's radius:\n")
    radius = int(line)
    return radius

#-----------------------------------------------------------------------

def write_results(radius, diam, circum):

    print('A circle with radius', radius, 'has diameter', diam)
    print('and circumference %f.' % circum)

#-----------------------------------------------------------------------

def main():

    try:
        radius = read_radius()

        diam = 2 * radius
        circum = math.pi * float(diam)

        write_results(radius, diam, circum)

    except ValueError:
        print('Error: Not an integer', file=sys.stderr)

    except EOFError:
        print('Error: Missing integer', file=sys.stderr)


#-----------------------------------------------------------------------

if __name__ == '__main__':
    main()
```

circle5.py (Page 1 of 1)

```
#!/usr/bin/env python

#-----------------------------------------------------------------------
# circle5.py
# Author: Bob Dondero
#-----------------------------------------------------------------------

import sys
import math

#-----------------------------------------------------------------------

def read_radius():

    line = input("Enter the circle's radius:\n")
    radius = int(line)
    return radius

#-----------------------------------------------------------------------

def write_results(radius, diam, circum):

    print('A circle with radius', radius, 'has diameter', diam)
    print('and circumference %f.' % circum)

#-----------------------------------------------------------------------

def main():

    try:
        radius = read_radius()

        diam = 2 * radius
        circum = math.pi * float(diam)

        write_results(radius, diam, circum)

    except ValueError:
        print('Error: Not an integer', file=sys.stderr)
        sys.exit(1)

    except EOFError:
        print('Error: Missing integer', file=sys.stderr)
        sys.exit(1)

#-----------------------------------------------------------------------

if __name__ == '__main__':
    main()
```