```
Create a function to calculate A × B
CREATE FUNCTION func(@a int, @b int)
RETURNS int
AS
       BEGIN
       RETURN (@a*@b)
       END;
GO
SELECT dbo.func(5, 8)
→ 40
Create a function to calculate the area of a circle by diameter
\pi \times r^2 = \pi \times (D/2)^2 = \pi \times D^2/2^2 = \pi \times D^2/4 = \pi/4 \times D^2
CREATE FUNCTION dbo.CircleS (@D dec(6,3)) - - dbo.CircleS - create func like DB, @... variable introduced
RETURNS dec(6,3) - - return parameter: dec(6,3) - decimal number, 6 characters in total, 3 of 6 after «.»
        BEGIN - - function start
       RETURN (PI()/4)*POWER(@D, 2) - - the function itself
       END - - function end
GO - - start of function execution
PRINT dbo.CircleS(15) - - action - display the function-DB, where the value of the variable = 15
→ 176.715 - - the result is decimal number, 6 characters in total, 3 of 6 after «.»
Create a function for determine odd/even numbers
CREATE FUNCTION funcA(@a int)
RETURNS varchar(30)
AS
BEGIN
       DECLARE @res varchar(30)
       IF (@a=0)
               BEGIN
               SET @res = 'This is zero, guys!'
               END
       ELSE IF (@a%2=0)
               BEGIN
               SET @res = 'Wow! Even!'
               END
       ELSE
               BEGIN
               SET @res = 'Wow! Odd!'
               END
RETURN @res
END
GO
                                                               GO
                               GO
PRINT dbo.funcA(11)
                               PRINT dbo.funcA(12)
                                                              PRINT dbo.funcA(0)
_____
                               _____
```

→ Wow! Even!

→ This is zero, guys!

→ Wow! Odd!