```php
<?php

    // Add post thumbnails feature
    add_theme_support('post-thumbnails');

    // Register nav menu
    register_nav_menus(
        array(
            "main-menu" => "Main Menu",
            "footer-menu" => "Footer Menu"
        )
    );

    // Register sidebar for widget
    function register_my_sidebar() {
        register_sidebar(
            array(
                'name'           => 'Main Section - Index',
                'id'             => 'main-section-index',
                'description'    => 'Widgets in this area will be shown on index page.',
                'before_widget'  => '',
                'after_widget'   => '',
                'before_title'   => '',
                'after_title'    => '',
            )
            // ,
            // array(
            //   'name'           => 'Main Section - Index',
            //   'id'             => 'main-section-index',
            //   'description'    => 'Widgets in this area will be shown on index page.',
            //   'before_widget'  => '',
            //   'after_widget'   => '',
            //   'before_title'   => '',
            //   'after_title'    => '',
            // )
        );
    }
    add_action( 'widgets_init', 'register_my_sidebar' );


class Product_Widget extends WP_Widget {
    public function __construct() {
        parent::__construct(
            'product-widget',
            'Product Widget',
            array(
                'description' => 'This is a product widget.'
            )
        );
    }


    public function widget( $args, $instance ) {
        $arg = array(
            "category_name" => $instance['cat-id'],
            "posts_per_page" => 4
        );

        $results = new WP_Query($arg);

        //if($results->have_posts()) {
    ?>
            <section class="products">
                <h1 class="product-title"><?php echo $instance['cat-id'] ?></h1>
                <div class="row">

                <?php while ( $results->have_posts()) {
```

```php
68                          $results->the_post()
69                      ?>
70                          <div class="col-md-3">
71                              <div class="card">
72                                  <?php the_post_thumbnail() ?>
73                                  <div class="card-body">
74                                      <h5 class="card-title"><?php the_title() ?></h5>
75                                      <p class="card-text"><?php the_excerpt() ?></p>
76                                      <a href="<?php the_permalink() ?>" class="btn
                                      btn-primary">More detail</a>
77                                  </div>
78                              </div>
79                          </div>
80                      <?php
81                          }
82                          wp_reset_postdata();
83                      ?>

85                      </div>
86                  </section>
87      <?php //}
88          }

90      public function form( $instance ) {
91          $catID = !empty( $instance['cat-id'] ) ? $instance['cat-id'] : "";
92          ?>
93          <p>
94              <label for="<?php echo esc_attr( $this->get_field_id( 'cat-id' ) ); ?>">Type
                Your category slug:</label>
95              <input class="widefat" id="<?php echo esc_attr( $this->get_field_id( 'cat-id'
                ) ); ?>" name="<?php echo esc_attr( $this->get_field_name( 'cat-id' ) ); ?>"
                 type="text" value="<?php echo esc_attr( $catID ); ?>">
96          </p>
97  <?php
98          }

100     public function update( $new_instance, $old_instance ) {
101         $instance = array();
102         $instance['cat-id'] = ( ! empty( $new_instance['cat-id'] ) ) ?
                sanitize_text_field( $new_instance['cat-id'] ) : '';

104         return $instance;
105         }
106     }

108 add_action('widgets_init', function() {
109     register_widget( 'Product_Widget' );
110 });
111
```