	# 6: Dec	oop Assignment 05 21118	
	# Problem statement:  Write a function template for selection sort that inputs,  sorts 4 outputs an integer array & float array.		
	#	To learn the concept of template.	
# Ontronnes  Implement generic sort algorithms.		Implement generic sort algorithms.	
#		Hardware requirement:  Manufacturer & Model: Acer Storff-3 (Intel is 8th gen)  Dutalled Mennory: 8GR RAM, G2GB SSD.  Architecture: 64-bit	
	#	Software Requirement: Operating System: voindows-10 home Engle language  IDE: Code Blocks: version 20.03 Compiler: 9th (version: 10.1.0)	
	#	Theory Templates templates one the foundation of generic programming, which involves writing code in a way is independent of any particular types.	
		function templates:  general form:  template < class type>  tel type functions (parameter-lub) <	
1		//code	

			DATE			
	class template:					
_	temp general form:					
	femplate r class type					
-	clas class name &					
	11 body of class					
_	<b>\</b>					
	Selection Soit:					
	il is a cooting glangithm. (In-place, correction)					
	2. O(u2) time complex	rity & O(1) space	rompiexily.			
	Pseudo code					
	selection sort:					
	1. start					
	2. Declare the template parameter T					
	3. Define template function for scleening fort.					
	4. In main define two arrays, one for integer &					
	another for float & take a input for both arrays					
	of call sorting function template to sort the number.					
	s. Stop					
#	Jestases					
0	Tallense	Expected output	Autual Ortput.			
2.	Tes case	Cyci of Supper	7 04.55			
7	integer array	socied integer	are) = <0,1,25,4,5,7}			
	8/4e=7	sorted integer array	(11/12/1131)			
	all[]= \$3,5,11,2,4,7,0}	0				
4	float array	Socied float	arrej= (0.1, 2.8, \$.3.5.			
1	8Re: 7		4.5, 4.9, 8.6,			
	artj=49.5,4.5, 2.5, 8.6,	array	9.56			
	2.8, 4, 9, 0.1 }					
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#	Hence, we have studied the concept of function function.
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Which array do you want to sort??
 1 for integer array
 2 for float array
 0 to exit
 :1
 Enter size: 7
 Enter element number - 1: 3
 Enter element number - 2: 5
 Enter element number - 3: 1
 Enter element number - 4: 2
 Enter element number - 5: 4
 Enter element number - 6: 7
 Enter element number - 7: 0
Before Sorting: 3 5 1 2 4 7 0
After Sorting: 0 1 2 3 4 5 7
Which array do you want to sort??
1 for integer array
2 for float array
0 to exit
:2
Enter size: 7
Enter element number - 1: 9.5
Enter element number - 2: 4.5
Enter element number - 3: 3.5
Enter element number - 4: 8.6
Enter element number - 5: 2.8
Enter element number - 6: 4.9
Enter element number - 7: 0.1
Before Sorting: 9.5 4.5 3.5 8.6 2.8 4.9 0.1
After Sorting: 0.1 2.8 3.5 4.5 4.9 8.6 9.5
```