Name: SRADHA KEDIA

Date and time of Examination: 9:30am - 12:30pm; 27/03/2021

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Name of the Programe: MCA

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Title of the Paper - Object Oriented Programming

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Question 4 :

```
def selectionsorting (p, _list):

    '''
    name : selectionsorting
    arguments : p, _list
    returns : none

    '''

    if p == len(_list):        # checking length of list with p.
        raise Exception (" No more iterations can be done.")

    else:                       # if not matched
        # finding minimum elt.
        minE = float('inf')
        for i in _list[p:] :

            minE = min(minE, i)

        # finding position of min elt.

        minPosition = _list.index(minE)

        # Exchanging (swapping) the element

        t = _list[p]
        _list[p] = _list[minPosition]
        _list[minPosition] = t

        #    _list[p], _list[minPosition] = _list[minPosition], _list[p]
```

```python
if __name__ == "__main__":          # driver function
    n = int(input("Enter the size of the list:"))   # taking
    
    _list = [int(input(f"Enter {i+1}th element of the list")) for
             i in range(n)]
                              # list input,
    
    
    p = 0                     # intialize p with 0.
    while (True):             # menu driven.
    
        print("""" Enter 1 to execute the iteration
            Enter 2 to print status
            Enter 3 to terminate
        """)
        choice = int(input(" Enter your choice"))
        if (choice == 1):
            try:
                                        # call
                selectionsorting (p, _list)    # calling function
            
            except Exception as e:      # excepting exception
                print(e)
                break                   # break the loop
            p = p+1                     # increment p
    
        elif (choice == 2):
            print(f"Iteration to be executed : p={p}, _list={_list}
            print(f"After the last iteration : _list={_list}")
```

```
elif (choice==3):
    break
```

to terminate.