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Part - 2Answer No-3

```

import java.util.Scanner;
public class selectionSort {
    public static void main (String[] args) {
        int size, i, j, temp;
        int arr[] = new int[30];
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter your array size:");
        size = sc.nextInt();
        System.out.println ("Enter Elements in array");
        for (i=0; i<size; i++) {
            arr[i] = sc.nextInt();
        }
        System.out.println ("Sorting array using selection sort");
        for (int i=0; i<size; i++) {
            for (int j = i+1; j<size; j++) {
                if (arr[i] > arr[j]) {
                    temp = arr[i];
                    arr[i] = arr[j];
                    arr[j] = temp;
                }
            }
        }
        System.out.println ("now the array after sorting");
    }
}

```

```

for(int i=0; i < size; i++){
    System.out.println(arr[i] + " ");
}
}
}

```

Output: Enter your array size: 5
 Enter elements in array: 12 31 01 10 5
 Sorting array using selection sort.
 1 5 10 12 31

Ans No - 5

```

<HTML>
<head>
  <title> Javascript sum </title>
</head>
<body>
  <h2> To find sum of n natural numbers </h2>
  <table>
    <tr>
      <td> <input type="text" name="a" id="
first" placeholder = "enter a number" > </td>
    </tr>
    <tr>
      <td> <button onclick="sum()">
submit </button>
    </td>
    </tr>
  </table>
  <div id="num" > </div>
</body>
<script type = "text/javascript">
function sum(){
  var n, i, sum = 0;
  n = parseInt(document.getElementById

```

```

("first).value );
for (i=1 ; i<=n ; i++) {
    sum = sum+i;
}
document.getElementById("num").innerHTML =
    "Sum of " + n + " natural number is : " + sum;
}

```

</script>

</HTML>

output:

to find sum of n natural number

sum of 10 natural number is : 55

Ans No-2

1. compiled and interpreted: java compiler translates java code to byte code and then by bytecode interpreter generates machine code which can be executed by any pc.
2. Platform independent: java compiler generates byte code and that can be executed in any machine which makes java portable and platform independent.
3. Robust: java is able to manage errors automatically. this makes code more reliable. security is also more as compared to C/C++.
4. Multithreading: java also support multithreading which means it can manage multiple task simultaneously. this create temporary

exe file and delete it self.

(14)

- ⑤ it also provide core XML support, supplementary character support, JDBC support, ease of development and also it is dynamic and extensible. which helps to increase the support of other class/packages.

Part-I

Ans i) B) Bytecode is executed by JVM

ii) b) Runtime

iii) c) public abstract void method ();

iv) d) compiler display error as +ta is invalid.

v) a) 5

vi) c) both a and b.