Objects and Arrays

1. Write a program to demonstrate method overloading with 3 different parameters.

Ans:

```
class calc{
      int result=n1+n2;
       return result;
      int result=n1+n2+n3;
      return result;
      double result= n1 + n2;
      return result;
  public static void main(String[] args) {
    calc obj=new calc();
    int result=obj.add(4,3);
    int res1=obj.add(4,3,2);
    System.out.println(result+" "+res1+" "+res2);
```

Output:



2. Write a program to create an object of an class which contain a method and call that class method in main method
Ans:

```
class Addition{
public int add (int n1,int n2)
{
int result=n1+n2;
return result;
}

public class method {
    public static void main(String[] args){
Addition obj = new Addition();
int result=obj.add(3,4);
System.out.println(result);
    }
}
```

Output:



3. Write a Java program to calculate the sum of all elements in an integer array?

Ans:

```
public class sum_of_array {
public static void main (String[] args) {
    int arr[] = new int[5];
    arr[0]=1;
    arr[1]=2;
    arr[2]=4;
    arr[3]=5;
    arr[4]=8;
    int sum=0;
    for(int i=0;i<5;i++) {
    sum+=arr[i];
    }
    System.out.println(sum);
}</pre>
```

Output:

```
PROBLEMS OUTPUT DEBUGCONSOLE TERMINAL

[Running] cd "/config/workspace/" && javac sum_of_array.java && java sum_of_array

20

[Done] exited with code=0 in 0.844 seconds
```

4. Write a Java program to find the index of a specific element in an integer array?

Ans:

```
public class find_index {
  public static void main (String []args) {
    int count=0;
    int arr[] = new int[5];
    arr[0] = 4;
    arr[1] = 5;
    arr[2] = 9;
    arr[3] = 10;
    arr[4] = 12;
    //find index of 5
    for(int i=0;i<5;i++) {</pre>
```

```
if(arr[i]==5) {
    System.out.println("Element found at index "+i);
    count=1;
    }
}
//if element is not found
if (count==0)
System.out.println("Element not found");
}
```

Output:

```
PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL

[Running] cd "/config/workspace/" && javac sum_of_array.java && java sum_of_array
20

[Done] exited with code=0 in 0.844 seconds

[Running] cd "/config/workspace/" && javac find_index.java && java find_index
Element found at index 1

[Done] exited with code=0 in 0.873 seconds
```

5. Write a Java program to print an entire array?

Ans:

```
class print_array{
public static void main(String []args){
  int arr[] = new int[5];
    arr[0] = 4;
    arr[1] = 5;
    arr[2] = 9;
    arr[3] = 10;
    arr[4] = 12;
  for(int i=0;i<5;i++){
    System.out.print(arr[i]+" ");
}
</pre>
```

Output:

