

Combined Objects And Arrays

Assignment Questions

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

Ans=

Source code;

```
class cal{
public int add(int n1,int n2,int n3){
int result =n1+n2+n3;
return result;
}
public int sub(int n1,int n2,int n3){
int result=n1-n2-n3;
return result;
}
public int mul(int n1,int n2,int n3){
int result=n1*n2*n3;
return result;
}
}

class Overloading{
public static void main (String[] rahul){
cal obj=new cal();
int result=obj.add(8,7,5);
System.out.println(result);
int result1=obj.sub(85,45,25);
System.out.println(result1);
int result2=obj.mul(2,3,4);
System.out.println(result2);
}
```

```
}
```

Output:

```
Windows PowerShell
PS E:\java assignment> javac Overloading.java
PS E:\java assignment> java Overloading
20
15
24
PS E:\java assignment> _
```

Q 2. Write a program to create an object of a class that contains a method and call that class method in the main method.

Ans=

Source code:

```
class call_method{
public void display_Message(){
System.out.println("hello, I am Student of PWD");
}
}

class call_Method_in_Main_Method{
public static void main(String[] rahul){
call_method my_method=new call_method();
my_method.display_Message();
}
}
```

Output:

```
Windows PowerShell
PS E:\java assignment> javac call_Method_in_Main_Method.java
PS E:\java assignment> java call_Method_in_Main_Method
hello, I am Student of PWD
PS E:\java assignment>
```

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

Ans=

Source code;

```
class Sum_Array{  
    public static void main(String[] rahul){  
        int arr[] =new int [] {3,4,5,6,7,8};  
        int sum=0;  
        for(int i=0;i<arr.length;i++){  
            sum=sum+arr[i];  
        }  
        System.out.println("sum of an array"+sum);  
    }  
}
```

Output:

A screenshot of a Windows PowerShell terminal window. The title bar reads "Windows PowerShell". The terminal shows the following commands and output:
PS E:\java assignment> javac Sum_Array.java
PS E:\java assignment> java Sum_Array
sum of an array33
PS E:\java assignment>
The output "sum of an array33" is displayed on the same line as the command "java Sum_Array".

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

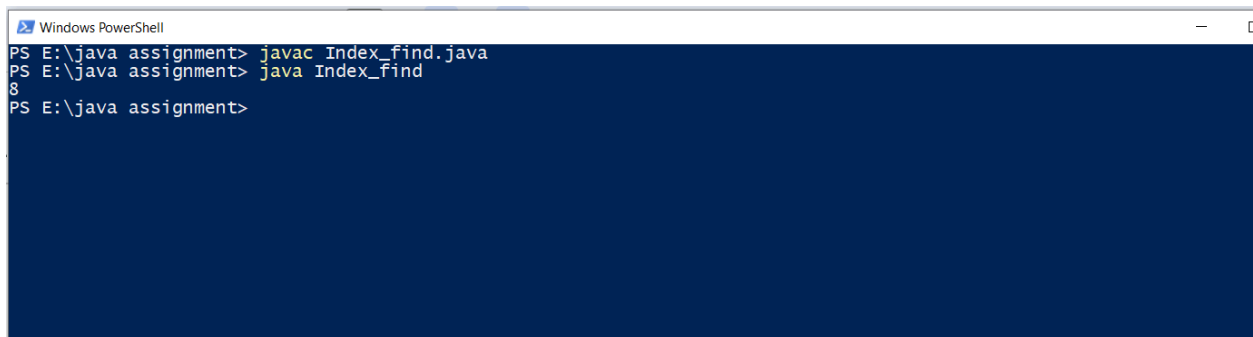
Ans=

Source code;

```
class Index_find{  
    public static void main(String[] rahul){  
        int num[]={1,2,3,4,5,6,7,8};  
        System.out.println(num.length);  
    }  
}
```

```
}
```

Output:



```
Windows PowerShell
PS E:\java assignment> javac Index_find.java
PS E:\java assignment> java Index_find
8
PS E:\java assignment>
```

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

Ans=

Source code:

```
class Print_Array{
public static void main(String[] rahul){
int num[]={1,2,3,4,5,6,7};
for(int i=0;i<=6;i++){
System.out.print(num[i]+" ");
}
System.out.println( );
}
}
```

Output:



```
Windows PowerShell
PS E:\java assignment> javac Print_Array.java
PS E:\java assignment> java Print_Array
1 2 3 4 5 6 7
PS E:\java assignment>
```