

## JAVA MID SEM LAB EXAM

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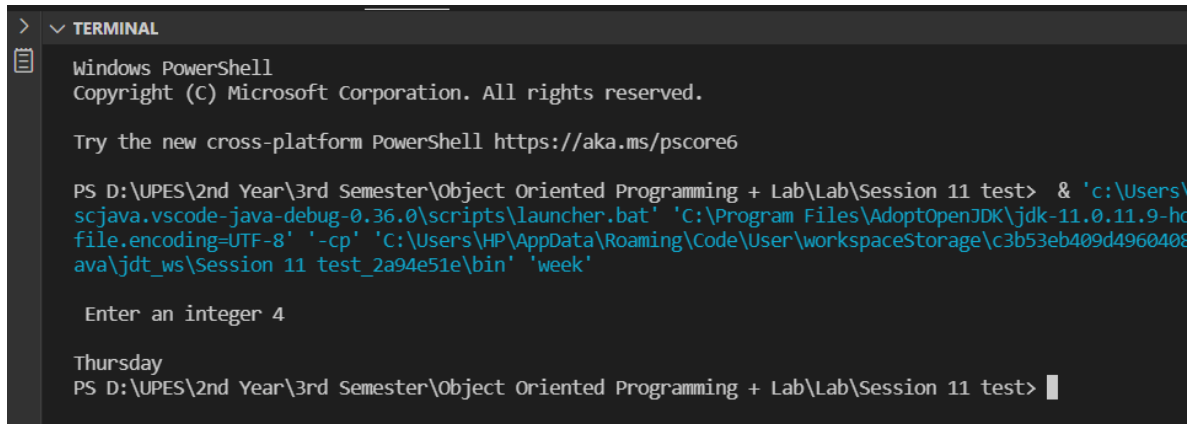
Batch 3

Answer 1:

```
import java.util.Scanner;
class week
{
    public static void main(String[] args)
    {
        Scanner day = new Scanner(System.in);
        int n;
        System.out.print("\n Enter an integer ");
        n = day.nextInt();
        switch(n)
        {
            case 1:
                System.out.print("\nMonday");
                break;
            case 2:
                System.out.print("\nTuesday");
                break;
            case 3:
                System.out.print("\nWednesday");
                break;
            case 4:
                System.out.print("\nThursday");
                break;
            case 5:
                System.out.print("\nFriday");
                break;
            case 6:
                System.out.print("\nSaturday");
                break;
            case 7:
                System.out.print("\nSunday");
                break;
            default:
                System.out.print("\nIt is not a weekday\n");
                break;
        }
    }
}
```

```
}  
}
```

- Output



```
> ▾ TERMINAL  
Windows PowerShell  
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Try the new cross-platform PowerShell https://aka.ms/pscore6  
  
PS D:\UPES\2nd Year\3rd Semester\Object Oriented Programming + Lab\Lab\Session 11 test> & 'c:\Users\scjava.vscode-java-debug-0.36.0\scripts\launcher.bat' 'C:\Program Files\AdoptOpenJDK\jdk-11.0.11.9-hotspot\bin\java\jdt_ws\Session 11 test_2a94e51e\bin' 'week'  
  
Enter an integer 4  
  
Thursday  
PS D:\UPES\2nd Year\3rd Semester\Object Oriented Programming + Lab\Lab\Session 11 test> |
```

Answer 2:

- Code

```
import java.util.Scanner;  
public class Pattern {  
    public static void main(String[] args)  
    {  
        Scanner num = new Scanner(System.in);  
        int n;  
        System.out.print("\nEnter Number of rows: ");  
        n = num.nextInt();  
        int i,j;  
        for(i=1;i<=n;i++)  
        {  
            for(j=1;j<=i;j++)  
                System.out.print(j);  
            System.out.println("");  
        }  
    }  
}
```

- Output

```
> ▾ TERMINAL
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\UPES\2nd Year\3rd Semester\Object Oriented Programming + Lab\Lab\Session 11 test> & 'c:\Users\cher.bat' 'C:\Program Files\AdoptOpenJDK\jdk-11.0.11.9-hotspot\bin\java.exe' '-Dfile.encoding=UTF-8' 'eb409d4960408e51eb3e830fae8\redhat.java\jdt_ws\Session 11 test_2a94e51e\bin' 'Pattern'

Enter Number of rows: 6
1
12
123
1234
12345
123456
PS D:\UPES\2nd Year\3rd Semester\Object Oriented Programming + Lab\Lab\Session 11 test> d;; cd 'd:\sion 11 test'; & 'c:\Users\HP\.vscode\extensions\vscjava.vscode-java-debug-0.36.0\scripts\launcher.bat' '-Dfile.encoding=UTF-8' '-cp' 'C:\Users\HP\AppData\Roaming\Code\User\workspaceStorage\c3b53eb409d\bin' 'Pattern'

Enter Number of rows: 10
1
12
123
1234
12345
123456
1234567
12345678
123456789
12345678910
PS D:\UPES\2nd Year\3rd Semester\Object Oriented Programming + Lab\Lab\Session 11 test> |
```

Answer 4:

- Code

```
class A
{
    String ele="X's Variable";
    A(){System.out.println("X class is created");}
    void func(){
        System.out.println("X's function");
    }
}

class B extends A
{
    //using super to refer parent class variable
    void varcall(){
        System.out.println(ele);//prints element of child class
        System.out.println(super.ele);//prints element of parent's class
using "super"
    }
    String ele="X's Variable";
    B(){
```

```

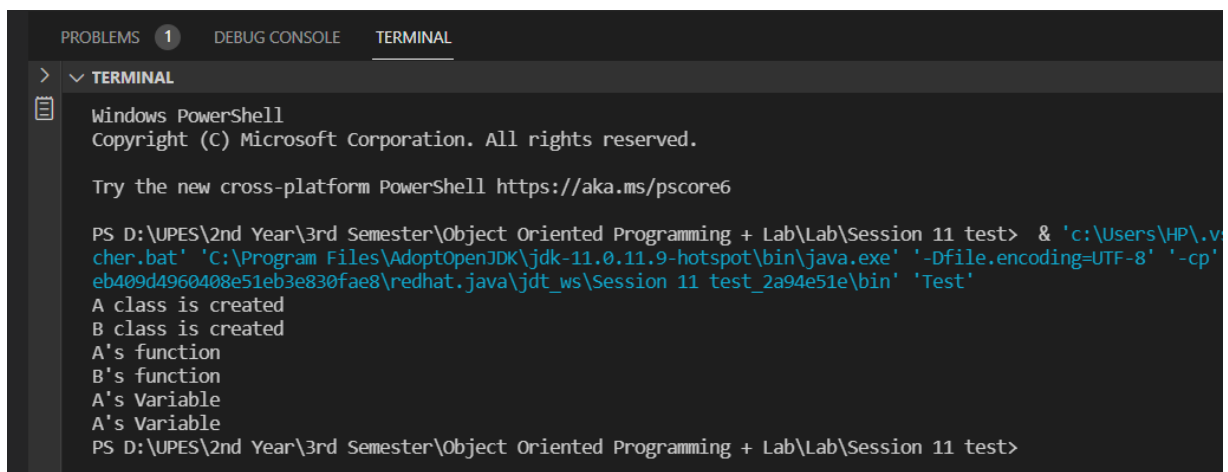
        super(); //super() used to call parent class constructor
        System.out.println("Y class is created");
    }

    void func(){
        super.func();//super() used to call parent class method
        System.out.println("Y's function");
    }
}

class Test
{
    public static void main(String args[]){
        B b=new B();
        b.func();
        b.varcall();
    }
}

```

- Output



```

PROBLEMS 1 DEBUG CONSOLE TERMINAL
> ▼ TERMINAL
Windows PowerShell
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PS D:\UPES\2nd Year\3rd Semester\Object Oriented Programming + Lab\Lab\Session 11 test> & 'c:\Users\HP\Videos\cher.bat' 'C:\Program Files\AdoptOpenJDK\jdk-11.0.11.9-hotspot\bin\java.exe' '-Dfile.encoding=UTF-8' '-cp' 'eb409d4960408e51eb3e830fae8\redhat.java\jdt_ws\Session 11 test_2a94e51e\bin' 'Test'
A class is created
B class is created
A's function
B's function
A's Variable
A's Variable
PS D:\UPES\2nd Year\3rd Semester\Object Oriented Programming + Lab\Lab\Session 11 test>

```