Week 4

```java
import java.util.*;
class Student {
private String usn;
private String name;
private int cred[];
private int marks[];
private int n;

void accept()
{
Scanner s=new Scanner(System.in);
System.out.println("Enter student details");
System.out.println("USN of the student:");
usn=s.next();
System.out.println("Name of student:");
name=s.next();
System.out.println("Enter the number of subjects:");
n=s.nextInt();
cred=new int[n];
marks=new int[n];
System.out.println("Enter credits and marks attained by the student in
each subject(out of 100)");
for(int i=0;i {
```

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cred[i]=s.nextInt();
marks[i]=s.nextInt();
   }
 }
void display()
{
System.out.println("Student details:");
System.out.println("USN:"+usn);
System.out.println("Name:"+name);
System.out.println("Marks in each subject:");
for(int i=0;i {
System.out.println("Subject "+(i+1)+":"+marks[i]);
   }
 }
double calculate()
{
int tcp=0,tc=0;
for(int i=0;i {
tc=tc+cred[i];
if(marks[i]>=50)
{
tcp=tcp+(((marks[i]/10)+1)*cred[i]);
   }
else if(marks[i]>=40 && marks[i]<50)
{
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        tcp=tcp+(4*cred[i]);
      }
    }
  return (double)tcp/tc;
  }
}
class Main
{

  public static void main(String ss[]) {
  Student s1=new Student();
  s1.accept();
  s1.display();
  System.out.println("SGPA: "+s1.calculate());
  }
}
```