class player.
{ String name;
int matches_played;
int average;

void ~~abstract~~ cal-average (String name, int ~~mat~~ P, int A)

{
name = N;
matches_played = P;
average = A;
}

abstract void cal-average (String, int, int);

Void accept()
{ Scanner xx = new Scanner(System.in);
System.out.println("Enter the name");
name = xx.next();
System.out.println("Enter matches played");
matches_played = xx.nextInt();
System.out.println("Enter average");
average = xx.nextInt();
}

(36)

class project
{
String project_Id;
String project_Name;
String location;
final Emp assigned = ;
String

Inheritance :-

oop principles

parent class , child class;
extends

Types of inheritance

→ (1)

void display ()
{
System.out.println ("Name : " + name);
System.out.println ("no of matches played : " + matches played);
System.out.println ("average is" + avg

}

Player p[ ] = new player[
(for (i=0; i< ; i++) ;
{
p[i] = new Player [n]
p[i]. accept
p[i]. Display
}

Player P[ ] = new Player [m
{ for (i=0; i<=m i++)
P[i] .new player
P[i]. accept()
P[i]. Display();

class BATSMAN extends player

{

int runs_scored;
int average = runs_scored
cal_average (String N; int P, int A)
void Rscored {
Scanner R = new Scanner (System.in);
System.out.println("Enter the no of
runs_scored = R.nextInt() scored
init cal_average (String N, int P, int A)
{ average_runs_scored = runs_scored
return average_runs_scored; P

class BOwler extends player

{

int runs_given;
int average_runs_given;
void Rgiven {
Scanner Rg = new Scanner (System.in);
System.out.println("Enter the no of runs gi
runs_given = Rg.nextInt()
}
int cal_average (String N, int P, int A)
{
average_runs_given = runs_given
P
{ return average_runs_given;
}

class ONI

{

Public static void main (String args[])

{

Scanner BB = new Scanner (System.in);

System.out.println ("Enter the number of Batsman");

int n = B.nextInt();

System.out.println ("Enter the number of Bowlers");

int n = B.nextInt();

Batsman S[] = new Batsman [n];

for (int i = 0; i <= n ; i++)

{

S[i] = new Batsman ();

S[i].RScored;

System.out.println (S[i].cal.average

(N, P, A));

}

Bowler B[] = new Bowler [n];

for (int i = 0; i <= n ; i++)

{

B[i] = new Bowler ();

B[i].Rgiven;

System.out.println (B[i].calaverage

(N, P, A));

}

```
class Exam extends Test
{   int SEE-marks[];

void ASEE()
 {   SEE-marks = new int[n];
  System.out.println("enter the SEE-marks of
      each course");
   for (int i=0 ;i<n;i++)
     {
      ~~System.out.println(" Course "+(i+1)~~
                    ~~SEE marks [ i]~~
      System.out.println(" see-marks["+i+
      SEE-marks [i] = I.nextInt ();
   }

void BSEE().
 {
    ~~System.out.println(" SEE marks~~
    for(int i=0; i<n; i++)
   {.
      System.out.println("subject"+(i+
             " +SEE-marks [i]);
    }.
 }
```

```
}
class Result
{
    double calculate()
    {   int tc=0; int creditpoint, ;
        tc = tc + credits[i];
        for(int i=0; i<n; i++)
        {
            if (SEE-Marks[i] >= 90 &&
                SEE-Marks[i] <= 100)
            {
                System.out.println("Grade 'S'");
                credit-point = credit-points +
                    ((SEE-Marks[i]/
                credit-point = credits[i] * 10;
            }
            else
            if (SEE-Marks[i] >= 80 &&
                SEE-Marks[i] < 90)
            {
                System.out.println("Grade 'A'");
                Credit-point = credits[i] * 9;
            }
            else
            if (SEE-Marks[i] >= 70 &&
                SEE-Marks[i] < 80)
```

```
}
    System.out.println("Grade 'B'");
    credit_point = credits[i] * 8;
}
else
if (SEE_marks[i] >= 60 && SEE_marks[i] < 70)
{
    System.out.println("Grade 'C'");
    credit_point = credits[i] * 7;
}
else
if (SEE_marks[i] >= 50 && SEE_marks[i] < 60)
{
    System.out.println("Grade 'D'");
    credit_point = credits[i] * 6;
}
else
if (SEE_marks[i] >= 40 && SEE_marks[i] < 50)
{
    System.out.println("Grade 'E'");
    credit_point = credits[i] * 5;
}
```

```
else
if ("SEE-marks[i] <40)
{
  System.out.println(" Grade 'F'");
  ~~credit-point =~~
  Credit-point = 0 ;
  System.out.println(" ~~you~~ ~~Try~~ Try next
  time ");
}
else
{
  system.out.println(" you have ~~chosen~~ typed
  wrong ~~marks~~ scores ");
}
}
return (double) ~~tc~~ credit-point
                          /tc ;
}

class Student
{
  Public static void main(String SS[])
{
```

```
Scanner xx = new Scanner(System.in);
System.out.println("enter number of Stud
                    Object[i]");
int n = xx.nextInt();
Student S[] = new Student[n];
for(int i=0 ; i<=n; i++)
{
  S[i] = new Student();
  S[i].basic();
}
Test T[] = new test[n];
for(int i=0; i<=n; i++)
{
  T[i]= new Test();
  T[i].accept();
  T[i].display();
  T[i].display();
}
Exam E[]= new Exam[n];
for(int i=0; i<=n; i++)
{
  E[i]= new Exam();
  E[i].ASET();
  E[i].SETE();
}
```

```
Result R[] = new Result[n];
for(int i=0; i<=n; i++)
{
    R[i] = new Result();
    R[i]=
    Sytm.out.println("SGPA:" + R[i].calculate(i);
}
```