```
#include <stdio.h>
int main()
{
    float principal_amt, rate, time, si;
    printf("Enter principal amount: ");
    scanf("%f", &principal_amt);

    printf("Enter rate: ");
    scanf("%f", &rate);

    printf("Enter time in years: ");
    scanf("%f", &time);

    si = principal_amt * rate * time * 0.01;
    printf("Simple interest is: %f\n", si);
    return 0;
}
```

```
Last login: Sun Sep 7 21:24:19 on ttys002
avantika@Shubhs-MacBook-Pro - % /Users/avantika/Documents/C\ Programing/IOP\ Lab/out ; exit;
Enter principal amount: 5000
Enter time in years: 10
Simple interest is: 5000.00
Saving session...
...copying shared history...
...saving history..truncating history files...
[Process completed]
```

```
int main()
{
    int iop,iocs,maths,eee,eng,sum;
    printf("Enter marks in IOP ");
    scanf("%d",&iop);

    printf("Enter marks in IOCS ");
    scanf("%d",&iocs);

    printf("Enter marks in Maths ");
    scanf("%d",&maths);

    printf("Enter marks in EEE ");
    scanf("%d",&eee);

    printf("Enter marks in Eng ");
    scanf("%d",&eng);

    sum = iocs + iop + maths + eee + eng;
    printf("\nTotal marks are %d", sum);
    printf("\nTotal marks are %d", sum);
    printf("\n Percentage %f", sum*0.2);
}
```

```
Last login: Sun Sep 7 21:24:57 on ttys002
//Users/avantika/Documents/C\ Programing/IOP\ Lab/out; exit;
avantika@Sunbs-MacBook-Pro ~ % /Users/avantika/Documents/C\ Programing/IOP\ Lab/out; exit;
Enter marks in IOS 78
Enter marks in EIE 76
Ente
```

```
int main()
{
    int base_sal, allowances, bonus, g_sal;
    printf("Enter base salary: ");
    scanf("%d",&base_sal);

    printf("Enter allowances: ");
    scanf("%d",&allowances);

    printf("Enter bonus: ");
    scanf("%d",&bonus);
    g_sal = base_sal+allowances+bonus;
    printf("\n Gross Salary = %d", g_sal);
}
```

```
Last login: Sun Sep 7 21:58:19 on ttys005
avantika/Bobubh-MacBook-Pro ~ % /Users/avantika/Documents/C\ Programing/IOP\ Lab/out ; exit;
Enter base salary: 6000
Enter allowances: 3000
Enter bonus: 1000

Gross Salary = 10000
Saving session...
...copying shared history...
...saving history..truncating history files...
...completed.

[Process completed]
```

```
int main()
{
    float deg_f, deg_c;
    printf("Enter temperature in fahrenheit: ");
    scanf("%f",&deg_f);

    deg_c = 0.556*(deg_f-32);
    printf("\n Temperature in celcius is: %f",deg_c);
}
```



```
int main()
{
    int a, b, c;
    printf("Enter a and b ");
    scanf("%d%d",&a,&b);
    c=a;
    a=b;
    b=c;
    printf("Swapped values are: =%d %d",a,b);
}
```

```
Last login: Mon Sep 8 13:38:57 on ttys014
//Users/avantika/Documents/C\ Programing/IDP\ Lab/out; exit;
avantika8Dubhs-MacBook-Pro ~ % /Users/avantika/Documents/C\ Programing/IDP\ Lab/out; exit;
Enter a and b 4
Swapped values are: =8 4
Swapped values are: =8 4
Saving session...
...copyling shared history...
...completed.

[Process completed]
```

```
#include <stdio.h>
int main()
{
    int a, b;

    printf("Enter two numbers: ");
    scanf("%d %d", &a, &b);

    printf("\nBefore swapping: a = %d, b = %d", a, b);

    a = a + b;
    b = a - b;
    a = a - b;
    printf("\nAfter swapping: a = %d, b = %d", a, b);
}
```

```
#include <stdio.h>
#include <math.h>

int main()
{
    float a, b, c, s, area;

    printf("Enter side a: ");
    scanf("%f", &a);

    printf("Enter side b: ");
    scanf("%f", &b);

    printf("Enter side c: ");
    scanf("%f", &c);

    s = (a + b + c) / 2;
    area = sqrt(s * (s - a) * (s - b) * (s - c));

    printf("Area of the triangle = %f\n", area);
}
```

ast login: Mon Sep 8 13:44:89 on t

```
Last login: Mon Sep 8 13:44:09 on ttyc016
//Berrs/avantiks/Documents/C\ Programing/IOP\ Lab/out; exit;
avantiks/Bohmbh-MacBook-Pro - % /Users/avantiks/Documents/C\ Programing/IOP\ Lab/out; exit;
Enter side a: 5
Enter side b: 12
Enter side b: 12
Enter side b: 12
Enter side c: 13
Area of the triangle = 30.000000

Saving session...
...copying shared history...
...saving history...truncating history files...
...completed:
[Process completed]
```

```
int main()
{
    int seconds = 31558150;
    int days, hrs, mins;

    days = seconds / (24 * 3600);
    seconds = seconds % (24 * 3600);

    hrs = seconds / 3600;
    seconds = seconds % 3600;

    mins = seconds / 60;
    seconds = seconds % 60;

    printf("\nEquivalent time: %d days, %d hours, %d minutes, %d seconds",days, hrs, mins, seconds);
}
```

```
Last login: Mon Sep 8 14:32:13 on ttys023
avantika@Shubhs-MacBook-Pro ~ % /Users/avantika/Documents/C\ Programing/IDP\ Lab/out ; exit;
Equivalent time: 365 days, 6 hours, 9 minutes, 10 seconds

Saving session...
...copying shared history...
...saving history...truncating history files...
...completed

[Process completed]
```

#include <stdio.h>

```
int main()
{
    int hrs, mins, seconds, t_seconds;

    printf("Enter hours: ");
    scanf("%d",&hrs);

    printf("Enter minutes: ");
    scanf("%d",&mins);

    printf("Enter second: ");
    scanf("%d",&seconds);

    t_seconds = hrs*3600 + mins*60 + seconds;
    printf("\n Equivalent time in seconds is: %d",t_seconds);
```

}

```
Last login: Mon Sep 8 17:87:12 on ttys081
avantika@Shubhs-MacBook-Pro ~ % /Users/avantika/Documents/C\ Programing/IOP\ Lab/out ; exit;
Enter hours: 3
Enter minutes: 5
Enter second: 12
Equivalent time in seconds is: 11112
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.
[Process completed]
```

```
int main()
{
    float maths, chem, phy, e_exam, cm;

    printf("Marks in Maths out of 200: ");
    scanf("%f",&maths);

    printf("Marks in Chemistry out of 200: ");
    scanf("%f",&chem);

    printf("Marks in Physics out of 200: ");
    scanf("%f",&phy);

    printf("Marks in entrance exam out of 100: ");
    scanf("%f",&e_exam);

    cm = (maths / 2) + (chem / 2) + (phy / 2) + e_exam;
    printf("\n Cut off marks = %f",cm);
}
```

```
Last login: Mon Sep 8 17:30:12 on ttys003
avantika@Shubhs-MacBook-Pro ~ % /Users/avantika/Documents/C\ Programing/IOP\ Lab/out ; exit;
Marks in Maths out of 200: 150
Marks in Chemistry out of 200: 150
Marks in Chemistry out of 200: 130
Marks in Physics out of 200: 137
Marks in entrance exam out of 100: 87
Cut off marks = 041.500000
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.]
[Process completed]
```

#include <stdio.h>
int main()
{
 int seconds, hrs, mins;

 printf("Enter total seconds: ");
 scanf("%d", &seconds);

 hrs = seconds / 3600;
 seconds = seconds % 3600;

 mins = seconds / 60;
 seconds = seconds % 60;

 printf("\n Hours: %d, Minutes: %d, Seconds: %d",hrs, mins, seconds);

}

```
Last login: Mon Sep 8 14:31:42 on ttys023
avantika@Shubhs-MacBook-Pro ~ % /Users/avantika/Documents/C\ Programing/IOP\ Lab/out ; exit;
Enter total seconds: 36:508
Hours: 10, Minutes: 8, Seconds: 20
Saving session...
...copying shared history...
..saving history...truncating history files...
..completed.
[Process completed]
[Process completed]
```

#include <stdio.h>

```
int main()
{
    char c;
    printf("Enter a character: ");
```

scanf("%c", &c);

printf("\nThe ASCII value of the given character is %d",c);

```
Last login: Mon Sep 8 18:18:55 on ttys005
//Users/avantika/Documents/C\ Programing/IDP\ Lab/out; exit;
avantika@Nobmb=MacBook-Pro ~ % //Users/avantika/Documents/C\ Programing/IDP\ Lab/out; exit;
Enter a character: S
He ASCII value of the given character is 83
Saving session...
...comylead.
...comylead.
...saving history...truncating history files...
...completed.
[Process completed]
[Process completed]
```

#include <stdio.h>

```
int main()
{
    int a;
    printf("Enter a number: ");
    scanf("%d",&a);

if (a%2 == 0)
    printf("The number is even");
    if (a%2 != 0)
        printf("The number is odd");
```

}

```
int main()
{
    char ch;

    printf("Enter a character: ");
    scanf("%c", &ch);

if (ch >= 'A' && ch <= 'Z')
    {
        printf("Capital Letter");
    }

else if (ch >= 'a' && ch <= 'z')
    {
        printf("Small Letter");
    }

else if (ch >= '0' && ch <= '9')
    {
        printf("Digit");
    }

else
    {
        printf("Special Symbol");
    }
}</pre>
```

```
Last login: Tue Sep 9 18:51:14 on ttys808
avantika@Shubha-MacBook-Pro ~ % /Users/avantika/Documents/C\ Programing/IOP\ Lab/out ; exit;
Enter a character:
Special Symbol
Saving session...
..copying session...
..saving history...truncating history files...
..completed.
[Process completed]
```