



Practical file
of
Programming in C

Course code:CSEG1041
School of Computer Science

Submitted by

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Course: **BCA**

Semester: **1st**

Batch: **B5**

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SUBMITTED TO

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/*Experiment 2:Operators

1.WAP a C program to calculate the area and paremiter of a ractangle based on its length and width.*/

```
# include <stdio.h>

int main()

{

float l,w,a,p;

printf("Name - Arush Tiwari \nSAP ID - 590028164 \nCourse - BCA \nBatch-B5");

printf("\n-----\n");

printf("Enter the length of the ractangle");

scanf("%f",&l);

printf("Enter the width of the ractangle");

scanf("%f",&w);

a=l*w;

p=2*(l+w);

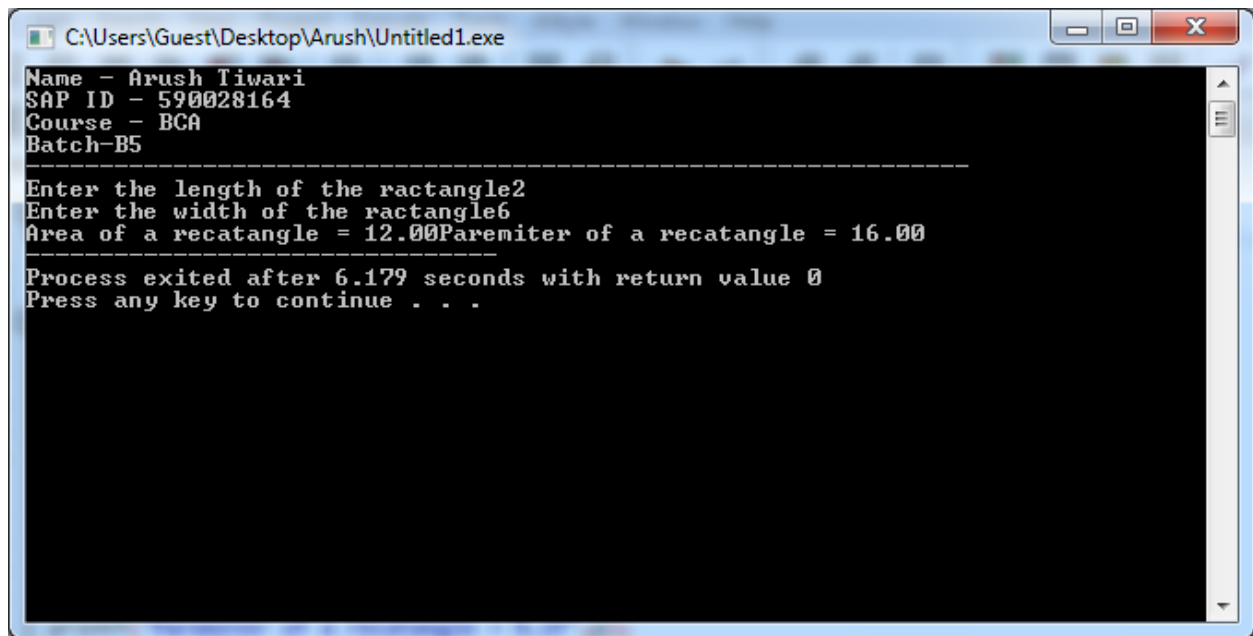
printf("Area of a recatangle = %.2f",a);

printf("Paremiter of a recatangle = %.2f",p);

return 0;

}
```

OUTPUT:



```
C:\Users\Guest\Desktop\Arush\Untitled1.exe
Name - Arush Tiwari
SAP ID - 590028164
Course - BCA
Batch-B5
-----
Enter the length of the ractangle2
Enter the width of the ractangle6
Area of a recatangle = 12.00Paremiter of a recatangle = 16.00
-----
Process exited after 6.179 seconds with return value 0
Press any key to continue . . .
```

/*2.WAP a C program to Convert temperature from Celcius to Fahrenheit.*/

```
# include <stdio.h>

int main()
{
float celsius, fahrenheit;

printf("Name - Arush Tiwari \nSAP ID - 590028164 \nCourse - BCA \nBatch-B5");

printf("\n-----\n");

printf("Enter temperature in Celsius: ");

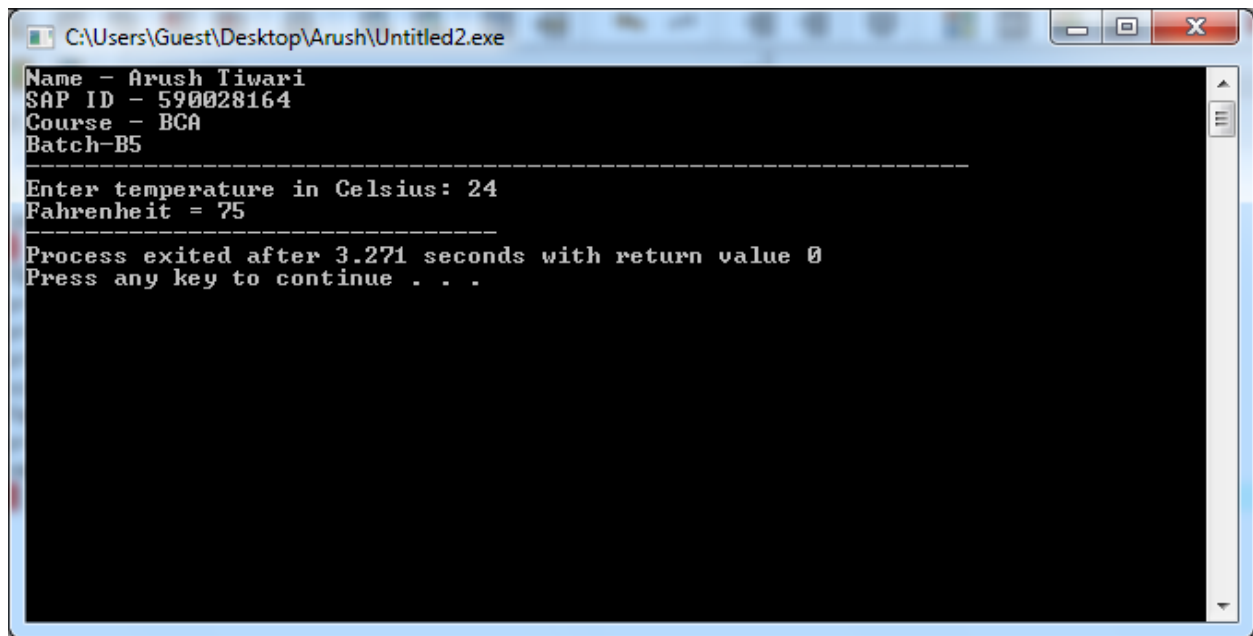
scanf("%f", &celsius);

fahrenheit = (celsius * 9/5) + 32;

printf("Fahrenheit = %.0f", fahrenheit);

return 0;
}
```

OUTPUT:



```
C:\Users\Guest\Desktop\Arush\Untitled2.exe
Name - Arush Tiwari
SAP ID - 590028164
Course - BCA
Batch-B5
-----
Enter temperature in Celsius: 24
Fahrenheit = 75
-----
Process exited after 3.271 seconds with return value 0
Press any key to continue . . .
```

/* 3. Write a program to calculate Compound Interest.*/

```
#include <stdio.h>

int main()
{
    printf("Name - Arush Tiwari \nSAP ID - 590028164 \nCourse - BCA \nBatch-B5");

    printf("\n-----\n");

    float principal, rate, time, compoundInterest;

    printf("Enter principal amount: ");

    scanf("%f", &principal);

    printf("Enter annual interest rate (in %): ");

    scanf("%f", &rate);

    printf("Enter time (in years): ");

    scanf("%f", &time);

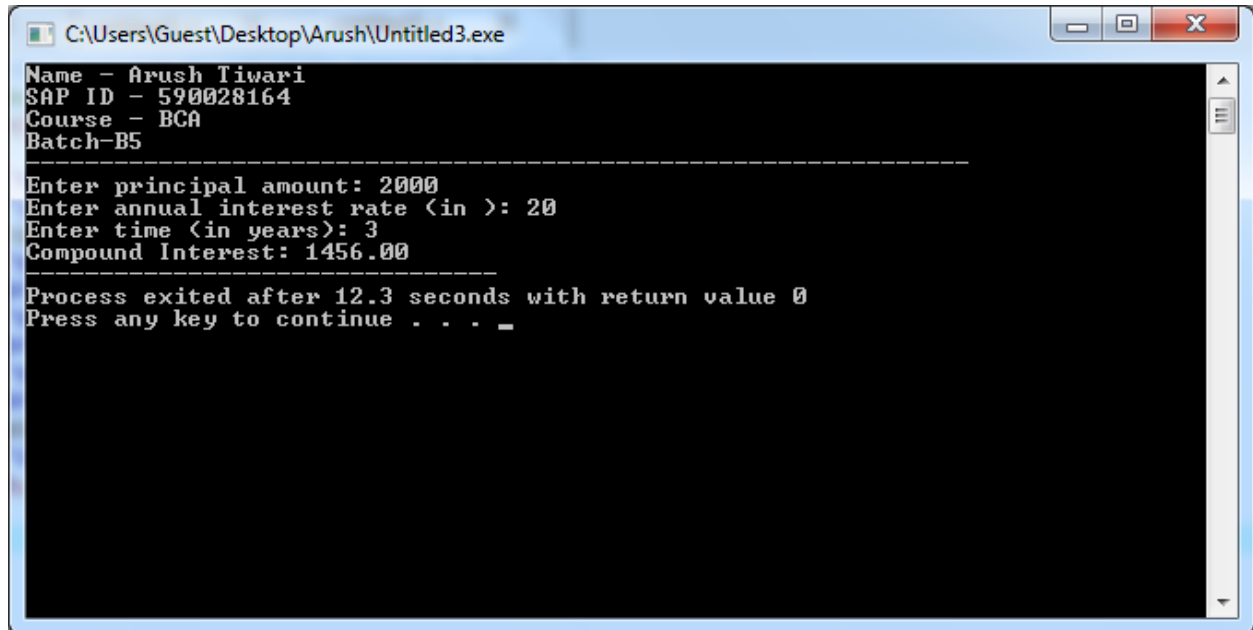
    compoundInterest = principal * pow((1 + rate/100), time) - principal;

    printf("Compound Interest: %.2f", compoundInterest);
```

```
return 0;
```

```
}
```

OUTPUT:



```
C:\Users\Guest\Desktop\Arush\Untitled3.exe
Name - Arush Tiwari
SAP ID - 590028164
Course - BCA
Batch-B5
-----
Enter principal amount: 2000
Enter annual interest rate (in %): 20
Enter time (in years): 3
Compound Interest: 1456.00
-----
Process exited after 12.3 seconds with return value 0
Press any key to continue . . . _
```