**Jedsadaporn Pannok ID: 66070503410**

**CPE100 Computer Programming for Engineers|  
Leb\_3\_KMUTT**

1) Write C program to “Covert Celsius to Fahrenheit”

#include <stdio.h>

int main() {

float tempC;

float tempF;

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printf("Enter your Celsius: ");

scanf("%f", &tempC);

tempF = (tempC / 5) \* 9 + 32;

printf("Fahrenhit = %.2f", tempF);

return 0;

}

2) Write C program to "Check whether a following number can create Triangle or not.”

#include <stdio.h>

int main() {

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int a, b, c;

printf("Enter your number\n");

scanf("%d", &a);

printf("Enter your number\n");

scanf("%d", &b);

printf("Enter your number\n");

scanf("%d", &c);

if(a+b>c && a+c>b && b+c>a){

printf("YES");

}else {

printf("NO");

}

return 0;

}

3) Write C program to "Output Number of bag you need to carry item by first number is total weight and second number is max weight bag can hold”

#include <stdio.h>

#include <math.h> // Imported to be able to use ceil / ceil = Round off the decimal

int main() {

float weight,max\_weight;

float sum;

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printf("Enter your weight ");

scanf("%f", &weight);

printf("Enter your max\_weight ");

scanf("%f", &max\_weight);

sum = weight/max\_weight;

printf("%f", ceil(sum));

}

Or not use math.h

#include <stdio.h>

int main() {

float weight,max\_weight,sum;

int numresult, numpart;

double decimalPart;

printf("Enter your weight ");

scanf("%f", &weight);

printf("Enter your max\_weight ");

scanf("%f", &max\_weight);

sum = weight/max\_weight;

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numpart = (int)sum;

printf("Numpart = %d \n", numpart);

decimalPart = sum - numpart;

printf("DecimalPart = %d \n", decimalPart);

if (decimalPart >= 0.5) {

numresult = numpart + 1;

printf("DecimalPart > 0.5 round up \n");

} else {

numresult = numpart;

printf("DecimalPart > 0.5 round down \n");

}

printf("result : %d", numresult);

return 0;

}

Write C program to “Output Quotient and Remainder from 2 Input number”

#include <stdio.h>

#include <math.h> // Imported to be able to use fmod / fmod = mod decimal

int main() {

float a, b, sum, fraction;

printf("Enter your number ");

scanf("%f",&a);

printf("Enter your number ");

scanf("%f",&b);

sum = a/b;

fraction = fmod(a,b);

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int sumResult = (int)sum; //decimal to integer

int fractionResult = (int)fraction; //decimal to integer

printf("%d\t", sumResult);

printf("%d", fractionResult);

return 0;

}

5) Write C program to “Output sum of angles inside any polygon ”

#include <stdio.h>

int main() {

int angles\_inside, n;

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printf("Enter your number of squares: ");

scanf("%d",&n);

angles\_inside = (n - 2)\*180;

printf("Angles inside = %d",angles\_inside);

return 0;

}

6) Write C program to “ Output the height of building, Where you drop the rock to the ground by specifying a time it hit the ground”

#include <stdio.h>

int main() {

int time,h, v;

int a = 10;

int u = 0;

printf("Enter your time: ");

scanf("%d",&time);

v = u+(a\*time);

h = (u+v)/2 \* time;

printf("height = %d m",h);

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return 0;

}

7) Write C program to “ Check whether this character are upper case or lower case or number”

#include <stdio.h>

int main() {

char character;

printf("Enter a character: ");

scanf("%c", &character);

if (character >= 'A' && character <= 'Z') {

printf("Upper\n");

} else if (character >= 'a' && character <= 'z') {

printf("Lower\n");

} else if (character >= '0' && character <= '9') {

printf("Number\n");

} else {

printf("does not qualify!!!\n");

}

return 0;

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}