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CPE100 Computer Programming for Engineers| Leb_3_KMUTT

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

```c
#include <stdio.h>

int main() {
  float tempC;
  float tempF;
  //Jedsadaporn Pannok ID:66070503410
  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.”

```c
#include <stdio.h>
int main() {
  //Jedsadaporn Pannok ID:66070503410
  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”

```c
#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;
  //Jedsadaporn Pannok ID:66070503410
  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

```c
#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;
  //Jedsadaporn Pannok ID:66070503410
  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”

```c
#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);
  //Jedsadaporn Pannok ID:66070503410
  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 ”

```c
#include <stdio.h>

int main() {
  int angles_inside, n;
  //Jedsadaporn Pannok ID:66070503410
  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”

```c
#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);
  //Jedsadaporn Pannok ID:66070503410
  return 0;
}
```

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

```c
#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;
    //Jedsadaporn Pannok ID:66070503410
}
```