## LAB TASK 04

## TASK 1: Write a C program that takes a single character as input and check if the character is a vowel.

#include <stdio.h>

int main() {

char alphabet;

printf("Enter Single Character \n");

scanf("%c", &alphabet);

alphabet.tolower();

if (alphabet=='a' || alphabet=='e' || alphabet=='i' || alphabet=='o' || alphabet=='u') {

printf("%c is vowel", alphabet);

} else {

printf("%c is not a vowel", alphabet);

}

}

#include <stdio.h>

int main () {

int temperature;

printf("Enter your area temperatur in \*Celcius \n");

scanf("%d", &temperature);

if (temperature < 10) {

printf("it's so COLD in your area'");

}

else if (temperature >= 10 && temperature <= 25) {

printf("it's MILD in your area'");

}

else if (temperature > 25) {

printf("it's so HOT in your area'");

}

else {

printf("invalid");

}

}

#include <stdio.h>

int main () {

float GPA;

printf("Enter your GPA \n");

scanf("%f", &GPA);

if (GPA >= 3.5) {

fflush(stdin);

char activities;

printf("Are you involve in extracurricular activities? (y/n) \n");

scanf("%c", &activities);

if (activities=='y') {

printf("You are eligible for scholarship.");

}

else {

printf("You are not eligible for any scholarship.");

}

}

else {

printf("You are not eligible for any scholarship.");

}

}

#include <stdio.h>

int main() {

int x,y;

printf("Enter your first number: ");

scanf("%d", &x);

printf("Enter your second number: ");

scanf("%d", &y);

if (x == y) {

printf("Given numbers are equal to each other");

}

else {

printf("Given numbers are not equal to each other");

if (x > y) {

printf("\nfirst number is gretaer than second number");

}

else {

printf("\nsecond number is gretaer than first number");

}

}

}

#include <stdio.h>

int main() {

char type;

int model;

printf("Enter your vehicle type\n");

scanf("%c", &type);

switch (type){

case 'c':

fflush(stdin);

printf("Enter your vehicle model\n");

scanf("%d", &model);

switch (model){

case 1:

printf("Model 1: Sedan, 1500cc, 4-door");

break;

case 2:

printf("Model 2: Hatchback, 1300cc, 5-door");

break;

case 3:

printf("Model 3: SUV, 2000cc, 4-door");

break;

default:

printf("invalid");

}

break;

case 'm':

fflush(stdin);

printf("Enter your vehicle model\n");

scanf("%d", &model);

switch (model){

case 1:

printf("Model 1: Cruiser, 250cc");

break;

case 2:

printf("Model 2: Sports, 600cc");

break;

case 3:

printf("Model 3: Dirt Bike, 450cc");

break;

default:

printf("invalid");

}

break;

default:

printf("invalid");

}

}

#include <stdio.h>

int main() {

float weight,height,BMI;

printf("Enter your weight\n");

scanf("%f", &weight);

printf("Enter your weight\n");

scanf("%f", &height);

BMI = (weight\*703)/(height\*height);

if (BMI < 15) {

printf("Starvation");

}

else if (BMI < 17.5) {

printf("Anorexic");

}

else if (BMI < 18.5) {

printf("Underweight");

}

else if (BMI >= 18.5 && BMI < 25) {

printf("Ideal");

}

else if (BMI >= 25 && BMI < 30) {

printf("Overweight");

}

else if (BMI >= 30 && BMI < 40) {

printf("Obese");

}

else if (BMI >= 40) {

printf("Morbidly Obese");

}

else {

printf("invalid");

}

}

#include <stdio.h>

int main (){

int cost;

char shipping;

float totalCost;

printf("Enter shipping method \n E: Express (Rs. 200) \n S: Standard (Rs. 100) \n O: Overnight (Rs. 300) \n R: Regular (Rs. 50)\n");

scanf("%c", &shipping);

printf("Enter your Product cost \n");

scanf("%d", &cost);

if (shipping=='e') {

// printf("%d",cost);

// totalCost = (cost + 200);

printf("Your total coast including shipping is %d", cost + 200);

}

}