**Decision Control Statement**

1. Write a C program to accept a coordinate point in a XY coordinate system and determine in which quadrant the coordinate point lies.
2. Write a C program to find the eligibility of admission for a professional course based on the following criteria:

Marks in Maths >=65

Marks in Phy >=55

Marks in Chem>=50

Total in all three subject >=180

1. Write a C program to input electricity unit charges and calculate total electricity bill according to the given condition:

For first 50 units Rs. 0.50/unit

For next 100 units Rs. 0.75/unit

For next 100 units Rs. 1.20/unit

For unit above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill

1. Write a C program to input the cost price , selling price and maintenance price of the product and then calculate profit or loss along with profit/loss percentage.
2. Write a C program to input any character and check whether it is alphabet, digit or special character.
3. Suppose you start writing a C program at time T1 (hh:mm:ss). At time T2 (hh:mm:ss) coding is finished. After compiling code, you get an error, and it took you T3 (hh:mm:ss) time to fix the error. Write a program to find the total time (hh:mm:ss) that you spent in executing this program.
4. [Write a C program to input all sides of a triangle and check whether triangle is valid or not.](http://www.codeforwin.in/2015/05/c-program-to-check-whether-triangle-side-is-valid-or-not.html)
5. [Write a C program to input grades and credits of five subjects Physics, Chemistry, Biology, Mathematics and Computer](http://www.codeforwin.in/2015/05/c-program-to-enter-student-marks-and-calculate-percentage-and-grade.html). Find the SPI of student according to the university rule and print the Grade based on SPI.
6. Write a C Program to find weather an entered year is leap or not.
7. Write a C program to input any character and if its uppercase alphabet then convert it into lowercase alphabet and vice versa using switch case.
8. Write a C program to find largest of three numbers using nested if-else.
9. Write a C Program to find largest of two numbers using switch case.
10. Write a program to calculate age of a person based on his given date of birth.
11. The output of the code below is (When 1 is entered).

#include <stdio.h>

void main()

{

char ch;

printf("enter a value btw 1 to 3:");

scanf("%c", &ch);

switch ( ch )

{

case "1":

printf("1");

break;

case "2":

printf("2");

break;

}

}

**What will be the output of the following programs?**

1. #include <stdio.h>

void main()

{

int x = 5;

if (x >1)

printf("hello");

else if (x == 5)

printf("hi");

else

printf("no");

}

1. #include <stdio.h>

void main()

{

int x = 5;

if (x < 1);

printf("Hello");

}

1. #include<stdio.h>

main()

{

int a = 2, b = 4, c = 8, x = 4;

if ( x == b)

x = a;

else  
 x = b;

if( x != b)

c = c + b;

else

c = c + a;

printf(“c = %d\n”,c);

}

1. #include<stdio.h>

int main()

{

int a = 5;

switch( a )

{

case 1:

printf("First");

case 2:

printf("Second");

case 3 + 2:

printf("Third");

case 5:

printf("Final");

break;

}

return 0;

}

1. #include<stdio.h>

main()

{

unsigned short int x = -10; int y = 10;

if ( y <= x)

printf( “He is good\n”);

if ( y == ( x = -10))

printf( “She is better\n”);

if (( int) x == y)

printf(“it is the best\n”);

}

1. What will be the output of following program?

#include <stdio.h>

int main()

{ int a = 4;

switch (a) {

default:

printf("DEFAULT");

case 1:

printf("ONE");

case 2:

printf("TWO");

case 3:

printf("THREE");

}

}

# What will be the output of following programs?

21.#include<stdio.> void main()

{

int y=10;

if(y++>9 && y++!=10 && y++>11) printf("%d", y);

else printf("%d", y);

}

1. #include<stdio.h>

void main()

{

int y=10;

if(y++>9 && y++!=11 && y++>11) printf("%d", y);

else printf("%d", y);

}

23. #include<stdio.h> voidmain()

{

int a, b=7;

a = b<4 ? b<<1 : ++b>4 ? 7>>1 : a;

printf("%d %d", a, b);

}

# 24.

#include<stdio.h> void main()

{

int a=10, b=11, c=13, d; d = (a=c, b+=a, c=a+b+c);

printf("%d %d %d %d", d, a, b, c);

}

1. #include<stdio.h>

void main()

{

int w=10, x=5, y=3, z=3; if( (w<x) && (y=z++) )

printf("%d %d %d %d", w, x, y, z); else

printf("%d %d %d %d", w, x, y, z);

}

1. #include<stdio.h> void main()

{

int movie=1; switch(movie<<2+movie)

{

default:printf("3 Idiots"); case 4: printf(" Ghajini");

case 5: printf(" Krrish"); case 8: printf(" Race");

}

}

1. Write a program to calculate the parking charges of a vehicle. Enter the type of vehicle as a character(like c for car, b for bus, etc.) and number of hours then calculate the parking charge given below-

Truck/Bus- Rs. 20 per hour Car- 10 Rs. per hour

Scooter /Motorcycle- Rs 5 per hour