**Switch Case Assignment**

**Solve the following codes in cpp and explain the reason of the output using comments**

**Dry run every program in the book and add pdf of that in the zip file with solutions.**

**Q1.**

#include <stdio.h>

void main() {

int a = 20;

switch(~a) {

case 20:

printf("Case 20\n");

printf("a= %d\n",a);

break;

case -20:

printf("Case -20\n");

printf("a= %d\n",a);

break;

case -21:

printf("case -21\n");

printf("a= %d\n",a);

break;

default:

printf("Default\n");

Break;

}

}

**Q2.**

#include <stdio.h>

void main() {

int x = 10;

int y = 20;

switch(x) {

case x:

printf("Case 10\n");

printf("x= %d\n",x);

break;

case y:

printf("Case 20\n");

printf("y= %d\n",y);

break;

default:

printf("Default\n");

break;

}

**Q3**

#include<stdio.h>

int main(){

float a = 5.2;

switch((int)a){

case 1:

printf("one\n");

break;

case 5:

printf("five\n");

break;

case 2:

printf("two\n");

break;

default:

printf("else\n");

break;

}

**Q4.**

#include <stdio.h>

int main() {

int x = 2;

switch(x << (x + 1)) {

default:

printf("\ndefault");

case 1:

printf("\n1");

break;

case 2:

printf("\n2");

break;

case 3:

printf("\n3");

break;

case 4:

printf("\n4");

break;

case 8:

printf("\n8");

break;

}

return 0;

**Q5.**

#include <stdio.h>

int main(){

int a;

switch(a = (sizeof(int) > -1)){

case 1: printf("True\n");

break;

case 0: printf("False\n");

break;

}

return 0;

}

**Q6.**

#include<iostream>

Int main() {

int a=5, b=3;

switch(a) {

case 1:

printf("One\n");

case 5:

printf("Two.\n");

case b:

printf("Three.\n");

case 'a':

printf("Four.\n");

default:

printf("Default.\n");

}

}

**Q7.**

Write a program in cpp in which students should enter marks of 5 different subjects. If all subject having above passing marks add them and provide to switch case to print grades(first class second class), if student get fail in any subject program should print “You failed in exam”

**Q8.**

Write a cpp program in which ask the user to enter a number from 0 to 5 and print it's spelling,if the entered number is greater than 5 print entered number is greater than 5 (use if else or switch case)

e.g

Input -Enter a number - 4

Output - four

**Q9.**

Write a program which accepts the month no provide that no to switch case and print the no. of days in that month

Input : Enter month number : 7

Output : July has 31 days

**Q10**

Write a program in cpp in which user should enter two numbers if both the numbers are positive multiply them and provide to switch case to verify number is even or odd, if user enters any negative number program should terminate saying “Sorry negative numbers not allowed”