**Fundamentals of Programming (Lab)**

**AssignmenT: 3**

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**Task 1:**

#include <iostream>

using namespace std;

int main()

{

int number;

cout<<"Please input the designated number of the required province i.e. 1 for Punjab, 2 for KPK, 3 for Sindh and 4 for Balochistan. \n" ;

cin >> number ;

switch(number)

{

case 1:

cout << "The Population of Punjab is 127.47 million";

break;

case 2:

cout << "The Population of KPK is 35.53 million";

break;

case 3:

cout << "The Population of Sindh is 47.89 million";

break;

case 4:

cout << "The Population of Balochistan is 12.34 million";

break;

default:

cout << "Please enter the valid number";

break;

}

return 0;

}

**Task 2:**

#include <iostream>

using namespace std;

int main()

{

char alphabet;

cout<<"Please input the alphabet. \n" ;

cin >> alphabet ;

switch(alphabet)

{

case 'a':

cout << "The entered alphabet is a vowel.";

break;

case 'e':

cout << "The entered alphabet is a vowel.";

break;

case 'i':

cout << "The entered alphabet is a vowel.";

break;

case 'o':

cout << "The entered alphabet is a vowel.";

break;

case 'u':

cout << "The entered alphabet is a vowel.";

break;

case 'A':

cout << "The entered alphabet is a vowel.";

break;

case 'E':

cout << "The entered alphabet is a vowel.";

break;

case 'I':

cout << "The entered alphabet is a vowel.";

break;

case 'O':

cout << "The entered alphabet is a vowel.";

break;

case 'U':

cout << "The entered alphabet is a vowel.";

break;

default:

cout << "The entered alphabet is a consonent.";

break;

}

return 0;

}

**Task 3:**

#include <iostream>

using namespace std ;

int main() {

int number;

cout << "Enter a number: ";

cin >> number;

switch (number) {

case 0:

cout << "You entered 0.\n";

break;

default:

if (number > 0) {

cout << "You entered a positive number.\n";

} else {

cout << "You entered a negative number.\n";

}

break;

}

return 0;

}

**Task 4:**

#include <iostream>

using namespace std ;

int main() {

int age;

cout << "Enter a your age: ";

cin >> age;

if (age <= 12) {

cout << "You are a child.\n";}

else{

if (age < 18 && age >= 12){

cout << "You are a teenager.\n";}

else{

cout << "You are an adult.\n";

}

}

return 0;

}

**Task 5:**

#include <iostream>

using namespace std ;

int main() {

int num1;

int num2;

int num3;

cout << "Enter the first number:\n ";

cin >> num1;

cout << "Enter the second number:\n ";

cin >> num2;

cout << "Enter the third number:\n ";

cin >> num3;

if (num1 > num2 && num1 > num3 ) {

cout << num1 << "is the greatest.\n";}

else{

if (num2 > num3 && num2 > num1){

cout << num2 << "is the greatest.\n";}

else{

if (num3 > num2 && num3 > num1){

cout << num3 << "is the greatest.\n";}

else{

cout << "Please enter different numbers.";

}

}

}

return 0;

}

**Task 6:**

#include <iostream>

using namespace std ;

int main() {

char alphabet;

cout << "Enter the character:\n ";

cin >> alphabet;

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

cout << "You have entered a vowel\n";}

else{

if (alphabet == 'A' || alphabet == 'E' || alphabet == 'I' || alphabet == 'O' || alphabet == 'U'){

cout << "You have entered a vowel.\n";}

else{

cout << "You have entered a consonent.\n";

}

}

return 0;

}