

Computer System and Programming

by

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Sec: A



Subject: Lab work

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TASK : 1

```
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5      //printing the population of provin
6      int province;
7      cout<<"select the province by number "<<endl;
8      cout<<"1 for punjab "<<endl;
9      cout<<"2 for sindh "<<endl;
10     cout<<"3 for balochistan "<<endl;
11     cout<<"4 for KPK "<<endl;
12     cout<<"Enter the province number: ";
13     cin>>province;
14     switch(province){
15         case 1:
16             cout<<"population of punjab is 127474000";
17             break;
18         case 2:
19             cout<<"population of sindh is 54858515";
20             break;
21         case 3:
22             cout<<"population of balochistan is 21700000";
23             break;
24         case 4:
25             cout<<"population of KPK is 39596664";
26             break;
27         default:
28             cout<<"invalid province";
29     } return 0;
30 }
```

```
select the province by number
1 for punjab
2 for sindh
3 for balochistan
4 for KPK
Enter the province number: 4
population of KPK is 39596664
-----
Process exited after 4.709 seconds with return value 0
Press any key to continue . . .
```

TASK : 2

```
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5      //seperating vowels and consonents
6      char alp;
7      cout<<"enter the alphabet: ";
8      cin>>alp;
9      switch(alp){
10         case 'a':
11         case 'e':
12         case 'i':
13         case 'o':
14         case 'u':
15         case 'A':
16         case 'E':
17         case 'I':
18         case 'O':
19         case 'U':
20             cout<<"alphabet is vowel";|
21             break;
22         default:
23             cout<<"alphabet is consonent";
24     }
25     return 0;
}
```

```
enter the alphabet: S
alphabet is consonent
```

```
-----
Process exited after 5.841 seconds with return value 0
Press any key to continue . . .
```

TASK : 3

```
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5      //checking the number
6      int number;
7      cout<<"enter the number: ";
8      cin>> number;
9      switch (number){
10         case 0:
11             cout<<"the number is zero";
12             break;
13         default:
14             if (number>0)
15                 cout<<"the number is positive";
16             else
17                 cout<<"the number is negative";
18
19     }    return 0;
20 }
```

```
enter the number: -67
the number is negative
```

```
Process exited after 5.014 seconds with return value 0
Press any key to continue . . .
```

TASK : 4

```
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5      //seperation on the basis of age
6      int age;
7      cout<<"enter the age: ";
8      cin>>age;
9      if(age>=0 && age<=12)
10     {cout<<"this is a child"<<endl;}
11     else {
12         if(age>=13 && age<=19)
13         {cout<<"this is a teen ager"<<endl;}
14         else {
15             if (age>=20 && age<=40)
16             {cout<<"this is a adult"<<endl;}
17             else
18             {cout<<"this is a old age person"<<endl;}}}
19     return 0;
20 }
```

```
enter the age: 40
this is a adult
```

```
-----
Process exited after 5.063 seconds with return value 0
Press any key to continue . . .
```

TASK : 5

```
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5      //seperating the vowel and consonent
6      char alpha;
7      cout<<"enter the alphabet: ";
8      cin>>alpha;
9      if (alpha=='a' || alpha=='e' || alpha=='i' || alpha=='o' || alpha=='u' ||
10         alpha=='A' || alpha=='E' || alpha=='I' || alpha=='O' || alpha=='U')
11         cout<<"your alphabet is vowel";
12     else
13         cout<<"your alphabet is consonent";
14     return 0;
15 }
16
```

```
enter the alphabet: U
your alphabet is vowel
```

```
Process exited after 4.319 seconds with return value 0
Press any key to continue . . .
```

TASK : 6

```
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5      int a,b,c;
6      cout<<"enter the value of a : ";
7      cin>>a;
8      cout<<"enter the value of b : ";
9      cin>>b;
10     cout<<"enter the value of c : ";
11     cin>>c;
12     if(a>b && a>c)
13     {cout<<"a is greatest number";}
14     else {
15         if(b>a && b>c)
16         {cout<<"b is greatest number";}
17         else
18         {cout<<"c is greatest number";}
19     }
20     return 0;
21 }
```

```
enter the value of a : 6
enter the value of b : 4
enter the value of c : 9
c is greatest number
```

```
-----
Process exited after 13.39 seconds with return value 0
Press any key to continue . . .
```