**LAB 4**

**Task 1**

Write a C++ Program that print your name 10 times.

#include<iostream>

using namespace std;

int main()

{

{

for (int i=1;i<=10;i++)

cout<<i<<" SHABBER"<<endl;

}

system ("pause");

return 0;

}

**Task 2**

Write a C++ Program that prints even and odd numbers from 1 to 20

#include<iostream>

using namespace std;

int main()

{

cout<<"Even"<<endl;

{

for (int i=0;i<=20;i=i+2)

cout<<"\t"<<i<<endl;

}

cout<<"\nOdd"<<endl;

{

for (int i=1;i<=20;i=i+2)

cout<<"\t"<<i<<endl;

}

system ("pause");

return 0;

}

**Task 3**

Write a C++ Program that takes value as input and prints square and cube of numbers till value entered by user.

#include<iostream>

using namespace std;

int main()

{ int stop;

cout<<"Enter till number: ";

cin>>stop;

cout<<"\n";

{

for (int i=1;i<=stop;i++)

cout<<"Square of "<<i<<" is "<<i\*i<<endl;

}

cout<<"\n";

{

for (int i=1;i<=stop;i++)

cout<<"Cube of "<<i<<" is "<<i\*i\*i<<endl;

}

system ("pause");

return 0;

}

**Task 4**

Write a program that takes number and range as input and print the table of that number upto the range entered by user.

#include<iostream>

using namespace std;

int main()

{ int num,stop;

cout<<"Enter table number: ";

cin>>num;

cout<<"Enter range of table number: ";

cin>>stop;

cout<<"\n";

{

for (int i=1;i<=stop;i++)

cout<<num<<"\*"<<i<<"="<<num\*i<<endl;

}

system ("pause");

return 0;

}

**Task 5**

Write a C++ Program that takes number as input from user and print factorial of that number.Use for and while loops.

**FOR LOOP**

#include<iostream>

using namespace std;

int main()

{

int num,factorial=1;

cout<<"Enter number: ";

cin>>num;

cout<<"\n"<<num<<"! = ";

for (int i=num;i>=2;i--)

{factorial=factorial\*i;

cout<<i;

cout<<"\*";}

for (int i=1;i>=1;i--)

{cout<<i;}

cout<<endl;

cout<<num<<"! = "<<factorial<<endl;

cout<<"\nFactorial of "<<num<<" is "<<factorial<<endl;

system ("pause");

return 0;

}

**WHILE LOOP**

#include<iostream>

using namespace std;

int main()

{

int num,n,factorial=1;

cout<<"Enter number: ";

cin>>num;

cout<<"\n"<<num<<"! = ";

n=num;

while (n!=1)

{factorial=factorial\*n;

cout<<n<<"\*";

n=n-1;}

while (n!=0)

{cout<<n;

n=n-1;}

cout<<endl;

cout<<num<<"! = "<<factorial<<endl;

cout<<"\nFactorial of "<<num<<" is "<<factorial<<endl;

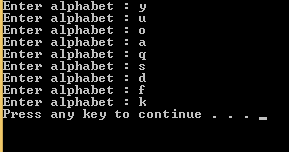
system ("pause");

return 0;

}

**Task 6**

Write a program that characters as input until user enters ‘k’



#include<iostream>

using namespace std;

int main()

{

char alpha,k;

cout<<"Enter aphabet : ";

cin>>alpha;

while (alpha!='k')

{

alpha=alpha;

cout<<"Enter aphabet : ";

cin>>alpha;

}

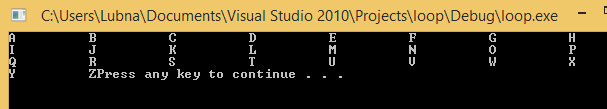
system ("pause");

return 0;

}

**Task 7**

Write a C++ Program that displays a series of alphabets in ascending order from ‘A’ to ‘Z’.



**WHILE LOOP**

#include<iostream>

using namespace std;

int main()

{ char alpha;

alpha=65;

while (alpha!=73)

{cout<<alpha<<"\t";

alpha=alpha+1;}

cout<<endl;

alpha=73;

while (alpha!=81)

{cout<<alpha<<"\t";

alpha=alpha+1;}

cout<<endl;

alpha=81;

while (alpha!=89)

{cout<<alpha<<"\t";

alpha=alpha+1;}

cout<<endl;

alpha=89;

while (alpha!=90)

{cout<<alpha<<"\t";

alpha=alpha+1;

cout<<alpha;}

system ("pause");

return 0;

}

**FOR LOOPS**

#include<iostream>

#include<iomanip>

using namespace std;

int main ()

{

char alpha;

{for(alpha='A';alpha<='H';alpha++)

cout<<alpha<<setw(8);}

cout<<"\n";

{for(alpha='I';alpha<='P';alpha++)

cout<<alpha<<setw(8);}

cout<<"\n";

{for(alpha='Q';alpha<='X';alpha++)

cout<<alpha<<setw(8);}

cout<<"\n";

{for(alpha='Y';alpha<='Z';alpha++)

cout<<alpha<<setw(8);}

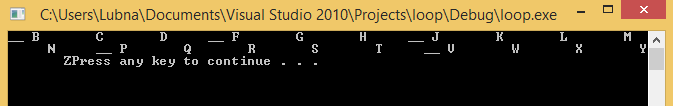
system ("pause");

return 0;

}

**Task8**

Modify your program in task 7 so that the program will display consonants only, not vowels.



**WHILE LOOP**

#include<iostream>

#include<iomanip>

using namespace std;

int main()

{ char alpha;

cout<<"\_\_ ";

alpha=66;

while (alpha!=69)

{cout<<alpha<<setw(8);

alpha=alpha+1;}

cout<<"\_\_ ";

alpha=70;

while (alpha!=73)

{cout<<alpha<<setw(8);

alpha=alpha+1;}

cout<<"\_\_ ";

alpha=74;

while (alpha!=79)

{cout<<alpha<<setw(8);

alpha=alpha+1;}

cout<<"\_\_ ";

alpha=80;

while (alpha!=85)

{cout<<alpha<<setw(8);

alpha=alpha+1;}

cout<<"\_\_ ";

alpha=86;

while (alpha!=91)

{cout<<alpha<<setw(8);

alpha=alpha+1;}

system ("pause");

return 0;

}

**FOR LOOPS**

#include<iostream>

#include<iomanip>

using namespace std;

int main ()

{

char alpha;

cout<<"\_\_\_";

{for(alpha='B';alpha<='D';alpha++)

cout<<alpha<<setw(8);}

cout<<"\_\_\_";

{for(alpha='F';alpha<='H';alpha++)

cout<<alpha<<setw(8);}

cout<<"\_\_\_";

{for(alpha='J';alpha<='N';alpha++)

cout<<alpha<<setw(8);}

cout<<"\_\_\_";

{for(alpha='P';alpha<='T';alpha++)

cout<<alpha<<setw(8);}

cout<<"\_\_\_";

{for(alpha='V';alpha<='Z';alpha++)

cout<<alpha<<setw(8);}

system ("pause");

return 0;

}