MUHAMMAD SAIFULNIZAM BIN SAMAD 021230010929 AF201WC029YPJ DDWC1603 C++ PROGRAMMING SIR AZIHANAFI 1.i) #include<iostream> #include<conio.h> using namespace std; /*Return the max between two numbers*/ int max(int num1,int num2){ int result; if (num1 > num2) result = num1; else result = num2; } int main() { int i = 5; int j = 2; int k = max(i,j); cout <<"The maximum between"<<i<<"and"<<2<<"is"<<5;</pre> getch();

return 0;

}

```
ii)
#include<iostream>
#include<conio.h>
using namespace std;
void printGrade(double score)
{
  if(score< 0 | | score >100){
    cout<<"Invalid score";</pre>
    return;
  }
  if(score >=90.0)
  cout<<'A';
  else if(score >=80.0)
  cout<<'B';
  else if(score >=70.0)
  cout<<'C';
  else if(score >=60.0)
  cout<<'D';
  else
  cout<<'F';
}
int main()
{
  cout<<"Enter a score";</pre>
  double score;
  cin>>score;
  cout<<"The grade is";</pre>
  printGrade(score);
  getch();
  return 0;
}
```

OUTPUT:

```
Enter a score 90.0

The grade isA

...Program finished with exit code 0

Press ENTER to exit console.
```

```
iii)
#include<iostream>
#include<conio.h>
using namespace std;
/**Swap two variables*/
void swap(int n1,int n2)
{
  cout<<"\tInside the swap function"<<endl;</pre>
  cout<<"\tBefore swapping n1 is"<<n1<<"n2 is"<<n2<<endl;</pre>
  //Swap n1 with n2
  int temp = n1;
  n1 = n2;
  n2 = temp;
  cout<<"\t\tAfter swapping n1 is"<<n1<<"n2 is"<<n2<<endl;
}
int main()
{
  //Declare and initialize variables
  int num1 = 1;
  int num2 = 2;
  cout<<"Before invoking the swap function,num1 is"<<num1<<"and num2 is"<<num2<<endl;
  //Invoke the swap function to attempt to swap two variables
  swap(num1,num2);
  cout<<"After invoking the swap function,num1 is"<<num1<<"and num2 is"<<num2<<endl;
```

```
getch();
 return 0;
}
iv)
#include<iostream>
#include<conio.h>
using namespace std;
void bintang(int i,int num)
{
for (int j = 1; j<=i; j++)
{
cout<<num<< " ";
num*=2;
}
cout<<endl;
}
int main()
{
int i = 1;
while(i<=6)
{
bintang(i,2);
i++;
}
getch();
return 0;
}
```

```
OUTPUT:
```

```
2
2 4
2 4 8
2 4 8 16
2 4 8 16 32
2 4 8 16 32 64
```

2)

```
#include<iostream>
#include<conio.h>
using namespace std;
int main()
{
  double Celsius;
  double C1,C2,C3;
  double Fahrenheit;
  double F1,F2,F3;
  cout<<"Please enter your three temperature Celsius;"<<endl;</pre>
  cin>>C1>>C2>>C3;
  cout<<"Please enter your three temperature Fahrenheit;"<<endl;</pre>
  cin>>F1>>F2>>F3;
  double FC1 =(9.0/5)*C1 + 32;
  double FC2 =(9.0/5)*C2 + 32;
  double FC3 = (9.0/5)*C3 + 32;
  double CF1 = (F1-32)*5/9;
  double CF2 =(F2-32)*5/9;
  double CF3 =(F3-32)*5/9;
```

```
cout<< "Celsius Fahrenheit | Fahrenheit Celsius"<<endl;</pre>
 return 0;
}
OUTPUT:
Please enter your three temperature Celsius;
50.0
45.0
40.0
Please enter your three temperature Fahrenheit;
140.0
120.0
20.0
Celsius Fahrenheit | Fahrenheit Celsius
50 122 | 140
           50
45 113 | 120
          45
40 104 | 20 40
```