INDIAN SCHOOL AL WADI AL KABIR

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| **Class: XI** | **SUB: COMPUTER SCIENCE** | **Completion:**  **31/10/2024** |
| **Worksheet No:11** | **TOPIC: Python Modules** | **Note: To be written in N.B** |

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| 1. | Write the equivalent python expressions and the output for the following:  1. X=sqrt(a2 + b2 + c) assume that a=2, b=3 and c=12  2. a=x2-x where x=2  3. b=(R+S)4 assume R=2 and S=4  4. c=2-4y\*(P+Q) where y=2, P=4 and Q=3  5. e=(A+B)2 + (C+D)2 where A=3, B=2, C=5 and D=5 |
| 2. | Write the output for the following:  import math as m  print(“math.pow(3,3)=”,math.pow(3,3))  print(“math.sqrt(65)=”,math.sqrt(65))  print(“math.fabs(-1500.73)=”, math.fabs(-1500.73))  print(“math.ceil(34.789)=”, math.ceil(34.789))  print(“math.floor(34.789)=”, math.floor(34.789))  print(“math.ceil(-5.67)=”,math.ceil(-5.67))  print(“math.floor(-9234.32)=”,math.floor(-9234.32)) |
| 3. | Consider the set of eight measurements in feet of students in a class:   |  |  | | --- | --- | | STUDENT | HEIGHT | | Rishabh | 5.9 | | Arnab | 5.5 | | Rajan | 6.1 | | Tapish | 6.0 | | Ajay | 7.2 |   Write a python program to calculate the average height of students in the class and median value using statistics module. (Note: for finding median when we use median() , it automatically sorts the list and fine the mid value, we don’t need to sort it manually) |
| 4. | Write the program to guess a number between 1 and 6. |
| 5. | What is python module? |
| 6. | Write a python program to calculate and print the average and median amount of donations received by a charitable organization as given below donations= [100,60,70,900,100,200,500,503,1000,1200], use statistics module. |

